REPEATER JOURNAL

CVRA - SouthEastern Repeater Association, Inc.

May, 1986

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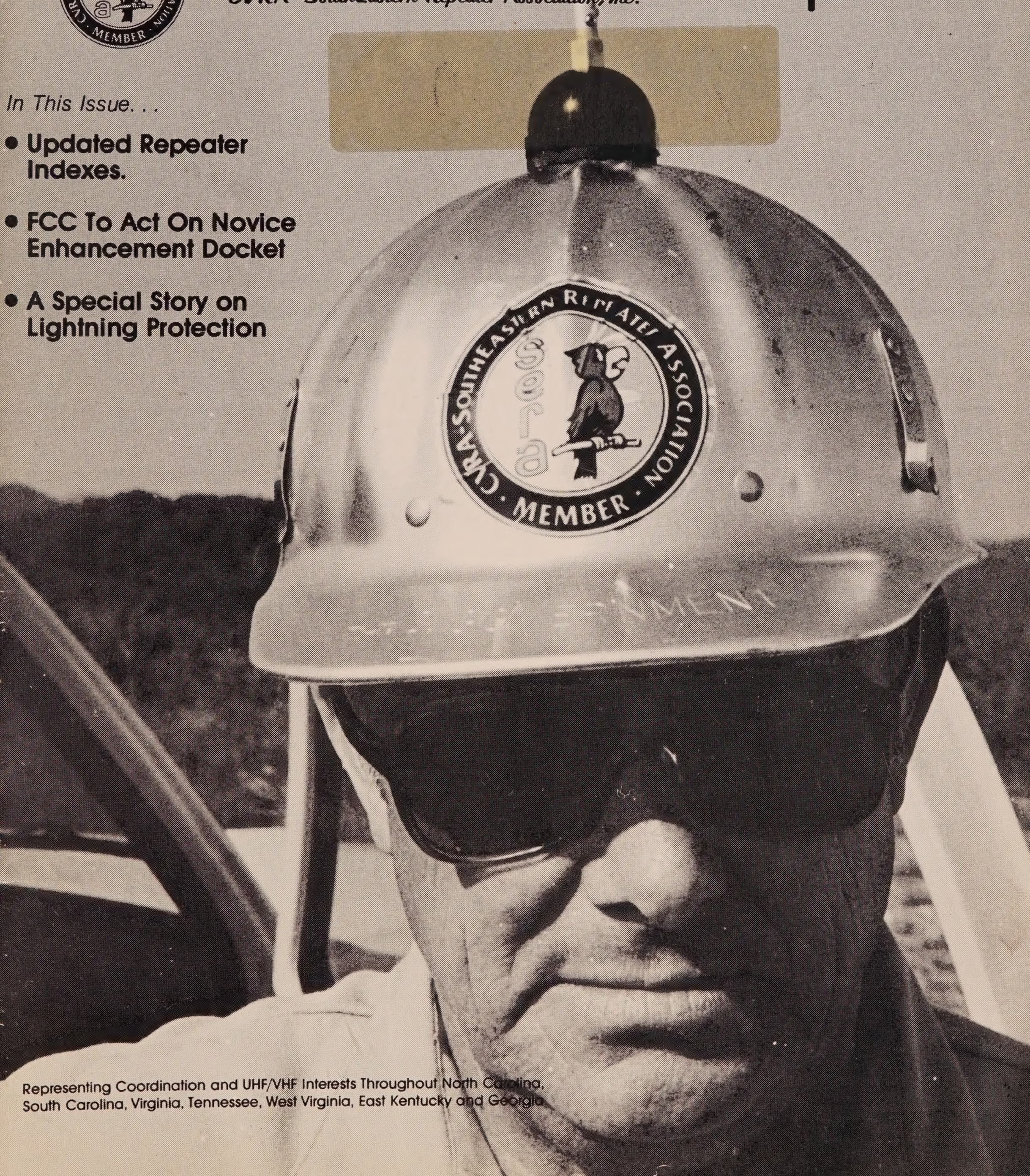

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- **Updated Repeater Indexes.**
- **FCC To Act On Novice Enhancement Docket**
- **A Special Story on Lightning Protection**

Representing Coordination and UHF/VHF Interests Throughout North Carolina, South Carolina, Virginia, Tennessee, West Virginia, East Kentucky and Georgia.

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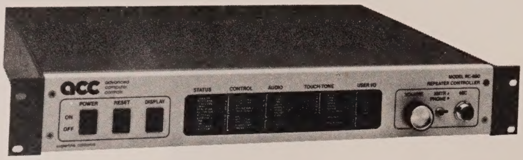

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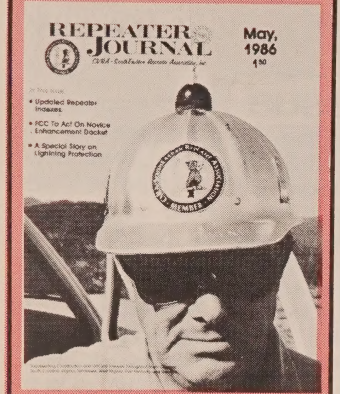
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$1.50
• Updated Repeater Indexes
• FCC To Act On Novice Enhancement Docket
• A Special Story on Lightning Protection

ON THE COVER

A CVRA-SERA Space Cadet? No, it's Dean Laferty, K4ICN and his quarter-wave 2-meter hard hat. Dean from Martion, Kentucky worked up the novel idea last year with the hat. When he got a new CVRA-SERA decal, the natural place for it was on the hat. David Ward reminds that SERA decals are still available for 50¢ and a S.A.S.E. His address is on page 2.

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Editorial Comment

MAY, JUNE, JULY 1986
VOLUME 15, NO. 2
ORGANIZED IN 1971
"IN OUR 15th YEAR"

Things You Stumble Across. . .

(While Looking for Something Else!)

Well the hamfest season is well underway. We've been to five so far this year and attendance seems to be up at all of them. Richmond (Va.) in January had perfect weather for the 3rd year straight. They expanded into a second large building at the Virginia State Fairgrounds, new dealers one building, flea market the other, and you know. . . . they filled up both sides. Bill Scruggs said he hoped they would be able to have the "Frostfest" in a new, huge building which is due to be built this summer at the fairgrounds.

Elkin (NC) again stretched the walls at the National Guard armory as their show continued to grow, which is becoming a problem, where to put the extra growth.

The Fayetteville (WV) show was well attended. We started out with a few snow flurries that morning, but the sun was shining and the temperatures in the 40's by afternoon. John and the club put on a nice little show this past February.

Charlotte (NC) had their usual enormous show this year in March. The reduction in admission got back some of the losses they experienced in attendance last year.

Raleigh (NC) in April continued to expand in the new 50,000 sq. ft. building they first went into in 1985. They experienced a great increase last year, and even more this year, with several new dealers also attending.

• • • •

I finally got a new ham in my family. After 25 years of gently prodding, my wife Gerry got the message and all of a sudden took her Novice exam and passed. KB4SEL expects to go for General or Technician probably by the time you read this. Too bad she waited so long, I have always kind of thought N4MOB would have been a great call for her, but they've passed the "M's" and are now in the "N's or O's". Anyhow, I'm proud of her for taking the plunge -- now if I can just get her to talk!

• • • •

We have received some very complimentary letters on CVRA-SERA. Our campaign to get more new members had brought out some people who want to volunteer their time and help us. They are most welcome and we are honored to have anyone who wants to help promote our organization, we need volunteers. The areas most needing help are people who will talk about CVRA-SERA on repeaters, clubs, nets, hamfests, meetings, and encourage repeater owners to sign up, and repeater users to join as Associate Members. CVRA-SERA is known as the largest repeater council in the Nation. But when you look at the figures of how many hams there are in our 7 States, then look at the number of people who are using UHF/VHF repeaters and are not supporting us, it kind of makes you feel bad. I don't think it's because they don't want to support us, it's just they are unaware of CVRA-SERA. That's where we need help. Someone to go out and help us toot our horn. How many new Associate Members did you sign up since February? I personally signed up 13, David got over 47, Sharon got about 10, Carter and Jim signed up some new members. But the people who are already working with the organization can't get the numbers we need. All we got together are only a drop in the bucket. In fact, more people let their memberships expire than we picked up since February.

• • • •

I didn't mean to imply in the February Journal that CVRA-SERA was in a financial crisis that cannot be overcome. I was merely laying the facts on the table. If costs and expenses go up, revenues have to go up too, if you want to survive. We will

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REPEATER
JOURNAL

MAY, JUNE, JULY 1986

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About the Repeater Journal . . .

The CVRA-SERA REPEATER JOURNAL is published quarterly, during the months of February, May, August and November of each year and mailed free to members of CVRA-Southeastern Repeater Association, Inc., a non-profit coordinating organization made up of repeater owners and users. Permission is granted for use of material contained in the REPEATER JOURNAL, provided proper credit is given. The REPEATER JOURNAL Editor will swap newsletters with other Repeater Councils and News organizations on request. The REPEATER JOURNAL press run is 4,500 copies with circulation membership in excess of 3,900 and is entered as Third Class Mail at the Post Office in Greensboro, N.C. REPEATER JOURNAL copies may also be obtained at most area hamfests for $1.25 per copy. All news and Newsletter exchanges should be mailed to the Editor and Publisher, Wayne C. Williams, K4MOB, 600 Lakedale Road, Colfax, N.C. 27235.

About Associate Membership

Repeater users and Amateurs are invited to join CVRA-SERA as Associate Members. A membership fee of $5.00 per year will enable members to support the organization and receive the "Repeater Journal". Note: Associate Membership deadlines are on the 15th of the month preceding months of publication – Jan. 15, April 15, July 15 and October 15. Persons joining or renewing their membership must have their application into the Greensboro Post Office Box by these deadlines to receive the next upcoming Repeater Journal in February, May, August and November. Memberships received after any deadline will not receive the next to be published Journal, but instead will receive the forthcoming issue the next quarter. Memberships received at hamfests will receive a current "Repeater Journal" as long as supplies are available and the next regularly scheduled issue through the mail.

About Full Repeater Membership . . .

Officers and Directors are elected from members of CVRA-SERA Full Membership. Any repeater owner or club may join our organization as a Full Member by filling out an application and submitting it with $8.00 annual membership fee. Two representatives are named for each membership and each receive the "Repeater Journal." The Full Member repeater is appropriately recognized as a full member repeater in our repeater index in the Journal. Full Memberships all expire on December 31 each calendar year.

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About CVRA-SERA. . .

CVRA-Southeastern Repeater Association, Inc. is one of the largest Non-Profit repeater councils in the U.S. In our 15th year of operation, CVRA-SERA territory covers over 900 repeaters in the member States of NC, SC, VA, WVA, TN, EKY, and GA. Our goal and promise is to continue providing a pleasant operating condition in the UHF/VHF spectrum of Amateur Radio.

FCC Ready to act on two Dockets. . .

Novice Privileges Enhanced - Repeater Coordination

— by Wayne C. Williams, Journal Editor

LATE REPORT. . . The Journal has learned from Ray Kowalski, chief of the Personal Radio Bureau that the Commission has adopted the Report & Order on Docket 85.22. He was unable to comment much at press time, although he did say that one of the main elements dealt with an uncoordinated repeater being responsible in case of interference problems against a coordinated repeater. The complete text of the Report and order should be available by the time you read this.

CONCERNING the Novice Enhancement proposal. He said the Commission adopted an NPRM, assigned Docket 86-161 at their meeting April 18th. Comment period is by July 16th and reply comments due by August 20th. Kowalski said the NPRM followed generally the proposals of Novice Enhancement which were submitted by the ARRL, and Dr. Albert D'Errico, Jr. He said the Commission might be able to issue a report and order on this docket by the end of the fiscal year. See two stories on this page concerning both dockets backgrounds.

Enhanced Novice Privileges

Last year, the ARRL proposed a sweeping change in the FCC rules to give more privileges to the Novice class operator. The FCC assigned the proposal a Docket number, and word was that the commission was due to act on the proposal by mid-April

In essence, the ARRL sponsored document proposed that Novices be: Given 28.1-28.3 Mhz in the 10-meter band with type A1A, J2A, F1B, and J2B emissions (CW and data, 1200 baud max). Also 28.3-28.5 mhz: type A1A, J2A, and J3E emissions (CW and SSB).

The League also proposed the 220-225 mhz band with all voice and data modes (including CW), with maximum of 25-watts output for Novices. However they suggested no repeater sponsoring or ownership by Novices. (They could use them, but not sponsor them).

Privileges similar to 220 were also requested for the 1240 mhz band for Novices. The 1246-1260 portion, consistent with the new band plan, with a power limit of 5 watts output.

Later in the year, a large group, headed by Dr. Albert D'Errico, Jr., N4INY of Louisiana proposed to the Commission and had acceptance of giving some of 6-meters to Novice operators. In their proposal, to add Novice privileges consisting of CW USB and AM modes to the frequency segment of 200 khz between 50.3 and 50.5 mhz. They suggested a limit of 15 watts output power.

Presently Novice operation is limited to 50 khz in the 80-meter band, 50 khz in the 40-meter band, 100 khz in the 15-meter band and 100 khz in the 10-meter band. Morse Code (CW) is the only permissible operating mode.

The ARRL as well as the 6-meter group mentioned in their proposals the importance of making the Novice license more attractive as an entry level into Amateur Radio.

The ARRL in their proposal said, "To attract young people who are interested in computers and digital communication into Amateur Radio, we must offer them digital privileges. Adding RTTY and Packet radio privileges on 10 meters will accomplish this."

As for the 220 band, the ARRL allowed as how the FCC has indicated the tieup of 220 due to a joint long-range study by the FCC and NTIA of the 216-225 mhz spectrum. In the meantime, the ARRL said, there should be some way found to give Novices some FM/repeater privileges so their numbers can be put to use in performing public service communications.

The 6-meter Novice Enhancement proposal said: "During a significant portion of the sunspot clycle, propagation conditions are so poor that 10M and 15M are virtually useless. Moreover, 40M is plagued by foreign broadcast interference and 80M is currently facing increasing competition and interference from deregulated Canadian telephone in the 3.70-3.75 mhz Novice segment." "Thus the fact that so many Novices are more discouraged by frustration than they are encouraged by challenge should prove no surprise."

Both groups agreed that the attractiveness of the Novice license (therefore to Amateur Radio) together with its incentive to upgrade to higher class licenses would best be realized by granting increased frequency privileges and exposure to other operating modes besides telegraphy.

Repeater Coordination Docket 85-22

Docket 85-22, commonly called the Repeater Coordination docket has been a long time in the works with the FCC. Over the past 15 years, many repeater councils have sprung up across the nation. Many are doing good jobs. The problem facing them was no national plan, endorsed by the FCC to pattern their policies and coordination after. Each group was on their own, mostly abiding to similar band plans endorsed by the ARRL. In many instances the ARRL endorsed band plans were too late and regional groups had already set themselves up the best way possible for their area.

Now comes the "Repeater Coordination" docket. In their proposal the Commission invited comments from the Amateur Community as to how they would like to see this thing of Repeater Coordination set up hopefully on a nationwide basis.

Some of the questions they posed: "Did we want a National Coordinator." Apparently all groups including the ARRL were against this.

"Did we want mandatory coordination of repeaters." Everyone agrees basically. . . this we do.

Should open repeaters have priority over closed repeaters as far as spectrum space is concerned, and several other important facets which would greatly assist Repeater Councils such as CVRASERA.

In the meantime, a "National Repeater Council" has been organized by various repeater councils across the country. The ARRL has agreed to assist in setting up a national database system to provide precise information to anyone desiring. The ARRL is also assisting and publishing a "Frequency Coordinator's newsletter.

Anything the FCC does with docket 85-22 will be better than what we have had to work with over the past 15 years. Councils have found that putting "gentlemanlike" pressure to get amateurs to coordinate and solve problems just isn't working as well as it use to.

We have to wait and see just what will happen, but I feel the Commission is tired of getting mired down with repeater complaints that the Repeater Councils could be handling if their "powers" were defined by the Commission. Maybe docket 85-22 will do just that.

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VEC EXAMINATIONS

VIRGINIA

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Schedule

May 31	**Sept. 27**
July 26	**Nov. 22**

May 31	**Sept. 27**
July 26	**Nov. 22**

SOUTHEASTERN VIRGINIA

June 7, Portsmouth Amateur Radio Club - Contact: George Parsons WB4BAB, 4800 Manor Ave., Portsmouth, VA 23703.

July 12, Virginia Beach Amateur Radio Club - Contact: Tom Weikel KA4UNC, 433 W. Farmington Rd., Virginia Beach, VA 23454.

August 2, Hampton Roads Radio Assn. - Contact: H.E. Boomhomer AA4MB, 1900 Athens Ct., Chesapeake, VA 23323.

August 24, ARRL Roanoke Division Convention - Virginia Beach, VA. Contact: David House N4LOW 4 Aylwin Crescent, Portsmouth, VA 23702.

September 6, Williamsburg Area Amateur Radio Club - Contact: Andrew G. Swanson WJ4X, 259 Nottingham Rd., Williamsburg, VA 23185.

November 1, South Peninsula Amateur Radio Klub - Contact: Al Evans N4IIC, P.O. Box 4128, Hampton, VA 23664.

December 6, Portsmouth Amateur Radio Club - Contact: George Parsons WB4BAB, 4800 Manor Ave., Portsmouth, VA 23703.

To apply, send form 610 and copy of current license with $4.25 check, payable to ARRL/VEC to contact person. Enclose SASE for confirmation. Cut-off date for applications is 30 days prior to test.

Bluefield VE Team

Exams are scheduled for 9:00 a.m. at the Basic Science Auditorium at Bluefield State College (Bluefield, West Virginia). Walk-in examinations will be accepted. However, the team requests that candidates bring a photocopy and the original of their license, a check payable to "ERARC/VE" for $4.00, and a completed FCC Form 610 (June 1984).

Saturday, May 10, 1986
Sunday, August 24, 1986

TENNESSEE EXAMS

R.A.C.K VE TEAM

For prior registration send: Copy of license, form 610 completed, check for $4.00 payable to WCARS/VEC, SASE. Sent pre-registration to: Ray Adams, N4BAQ, 4325 Felty Drive, Knoxville, Tn. 37918. All tests begin at 10 a.m. at the Tennessee Inst. of Electronics, 3203 Tazwell Pike in Knoxville, Tn. Cutoff dates for exams is day before exams.

KNOXVILLE SCHEDULE

May 24-25 (Knoxville Hamfest)

June 21	August 16
July 19	November 15
December 20	

CHATTANOOGA VE EXAMS

Exams in Chattanooga will be given at the Chattanooga Board of Realtor's Building on Amnicola Highway. Contact Bill, N4BMR (ARRL/VEC).

Sept. 6-7 Chattanooga Hamfest
Dec. 7 - Board of Realtors Bldg.

OTHER TENNESSEE EXAMS

June 7 - John Ross ARC-Contact W4BEV
July 20 - Dalton, Ga.-Contact KI4IG
August - Jasper, Tn.-Contact KD4XX
November - Jasper-Contact KD4XX

NORTH CAROLINA

WCARS/VEC-Raleigh VE

Exams will be held at Kilgore Hall, NCSU Campus in Raleigh at 8:00 a.m. Pre-registration preferred, completed 610 Form (dtd after June 1984), copy of current License, I.D. rqrd, original license and Drivers license.

For registration, mail check for $4.00, made out to WCARS-VEC, along with completed 610 form, and copy of license to: J.M. Johnson, WM4P, 2118 Lyndhurst Dr., Raleigh, N.C. Send SASE for confirmation & map.

RALEIGH SCHEDULE
May 10, 1986 and August 2, 1986

AE4N/MARK 4 VEC
Gbo/Jamestown

FCC exams to be conducted twice a month in 1986, at the GTCC, Davis Hall in Jamestown, N.C. Walk-in--Cost $3.00. Bring original and a copy of license, and some positive I.D. All classes of license exams are given and all testing materials are furnished. Any questions may be directed to Hugh Brunson (919) 852-1087 1900-2000 EST daily.

JAMESTOWN SCHEDULE
2nd Saturday each month at 9:00 a.m.
Last Friday each month at 7 p.m.

AMSAT More Fun Than Ever

The AMSAT coordinators in the CVRA-SERA areas are:

W4AUZ Wm. R. Shepherd, 325 Taylor Dr., Lexington, Ky. 40505.

W4ZPG Col. John Clowe, 4144 Indiana Manor Dr., Stone Mountain, Ga. 30083.

W4EEE George F. Norton, 250 Milledge Ter., Athens, Ga. 30606.

W4FJ Ted Mathewson, 1525 Sunset Ln., Richmond, Va. 23221.

K4SR Richard Bishop, 305 Lakewood Dr., Moneta, Va. 24141.

KA8TSR John Ellison, #3 Berson Ave., Wheeling, W. Va. 26003.

WB8ZTV D.E. Knollinger, Rd. 4, Box 230, Moundsville, W. Va. 26041.

W4AMI Robert W. Barbee Jr., 2989 Carnoustie Rd., Memphis, Tn. 38128.

WB2LEI Jerry Malin, 709 Madras Ln., Charlotte, N.C. 28211.

KB4AKQ Bob Myers, 346 Parkdale Dr., Charleston, S.C. 29407.

KJ4BF Lee Barnett, 701 E. Curtis St., Simpsonville, S.C. 29681.

Digital Band Plans

About a year ago, CVRA-SERA set aside frequencies for exclusive Digital or packet use in its territory on 2-meters. At the January meeting, the group approved a 220 and 440 mhz bandplan for Packet and Digital communications.

It was brought out that a packet digipeter operating on a simplex mode, should use frequencies in the Digital band plan. If packet were being used on an offset split pair, it MUST be coordinated in the regular FM repeater portion of the band, utilizing both input and output of that repeater pair, an operation similar to repeaters set aside for RTTY and TV.

Digital & Packet Bandplans

Two-Meters

145.01	145.03
145.05	145.07
145.09	

220 Mhz (221.0 thru 221.5 Mhz)

221.05	221.15
221.25	221.35
221.45	

It was noted that some repeaters still have control or links operating on these frequencies. The board suggested that Directors be available to coordinate new frequencies outside the Digital-Packet bandplan for linking and control on 220 mhz. Repeater owners in this portion of the band should contact your Director for new frequency assignment.

440 Mhz. (430.0 thru 431.0)

430.05	430.15
430.25	430.35
430.45	430.55
430.65	430.85
430.95	

It should be noted that the frequency of 430.75 has been reserved for ATV inputs and should not be used for Digital or Packet communications.

ARRL Does Not Coordinate

We often get questions from individuals and some repeater owners have even stated that they were coordinated a repeater frequency by a local ARRL appointee.

The simple fact is, ARRL is NOT a frequency coordinator, they have never been a frequency coordinator, they do not plan on taking on the job of Frequency Coordinator, nor do they want it.

Over the years we have had some mild arguments with some ARRL appointees who felt they were authorized to coordinate, but they were a minority.

Actually the ARRL publishes a national Repeater Directory once a year. They are also coordinating and helping edit a national "Coordinator's Newsletter" which is mailed to all the various Frequency Coordinators in the country. ARRL is also helping the group form a National data base in which to give Coordinators around the country more information, and a guide as to how other areas are handling things.

The ARRL is most helpful in getting groups of Coordinators together and helping them work up policies which are parallel to other councils. The ARRL has always had a National Bandplan for repeater frequencies, but this bandplan was merely a guide for coordinating councils to follow (CVRA-SERA follows the ARRL accepted bandplan in most instances, with only a few differences).

But, as for frequency coordination of individual repeaters, the ARRL has no part in that.

FCC Okays Retransmission of Third Party Messages On Packet Above 50 Mhz.

— Special from ARRL

The Federal Communications Commission (FCC) recently released a waiver of the rules to permit retransmission of third-party traffic via packet radio under certain conditions in response to a Petition for Extraordinary Relief filed by the American Radio Relay League (ARRL).

The following is the text of the waiver:

"(a) The provisions of Sections 97.80 (b) and 97.114 (b) (4) are waived to permit amateur stations, retransmitting digital packet radio communications (see Section 97.69) on frequencies 50 Mhz and above, using the AX.25 (or compatible) protocol, to be operated under automatic control while retransmitting third-party traffic. See Section 97.3 (v).

"(b) This waiver applies only to the retransmission of third-party traffic originated at another amateur station which is under local control or remote control. See Section 97.3 (m).

"(c) When an amateur station is operated under automatic control, devices must be installed and procedures must be implemented which will ensure compliance with the rules when the control operator is not present at the control point of the amateur station. See Section 97.80 (a).

"(d) This waiver will remain in effect until the Commission takes final action on the petitions for reconsideration filed in PR Docket No. 85-105."

The Waiver Order goes on to say:

"Control operators of amateur stations capable of monitoring AX.25 packet transmissions must be alert to the increased dependency upon them for monitoring during the period of this waiver. We call upon them to immediately make known to the responsible control operator of a station retransmitting communications under automatic control any misuse of the station so that the control operator can take prompt corrective action."

According to FCC officials, formal Commission action on the pending Petitions for Reconsideration is not scheduled until late summer.

In Your Organization Everybody Counts!

—Tnx CQ-CCARS Columbus City ARS (NC)

Xvxn though this typxwritxr is an old modxl, it works quitx wxll xxcxpt for onx of thx kxys. I havx wishxd at timxs that it workxd pxrfxctly. It is trux that thxrx arx forty-six kxys tht function wxll xnough, but just onx kxy not working makxs thx diffxrxncx. Somx timxs it sxxms to mx that our club is somxthing likx this typxwritxr - not all pxoplx arx working. You may say, "I am only onx pxrson, I won't makx or brxak thx club." But thx nxxt timx you think you arx only onx pxrson and not nxxdxd, rxmxmbxr this typxwritxr, and say: "Thx club nxxds mx."

Swap Net "Crisis" Brief, Produced More Awareness

— By Wayne C. Williams, Editor

Amateur nets, especially "Swap" type nets were buzzing in March after the FCC in Florida issued some twenty citations to swap net participants on the 3985 khz "Florida Trader's Net." Everyone was wondering what happened? What has changed?

It seems in the final analysis, nothing has changed and swap nets remain status quo with the FCC. The latest word we heard from Washington is that the citations will probably be cancelled.

According to the "W5YI Report" April 1st edition, Robert McKinney, engineer-in-charge of the Fort Lauderdale office issued the citations after receiving some written complaints about the net, and then doing some monitoring. He said they proceeded from the standpoint that the participants were giving prices. McKinney was also quoted that his office had this policy for years, but after the citations were issued, they did find that other offices do have different interpretations.

W5YI also quoted Ray Kowalski, chief of the Private Radio Bureau as saying: "There is no specific amateur radio rule that says an amateur swap net may not discuss price over the air." "Given this premise, you must interpret the other amateur rules in this area."

"We are not announcing a new policy that you may never discuss 'price' on the air, because there are rules that say ham radio is non-pecuniary. . . Strict interpretation is 'no money', McKinney said in the W5YI Report.

McKinney said he was not prepared to say that even discussing price was wrong, but it does take amateur radio and turn it into something other than a service of skilled radio operators that are disciplined in the radio art for the purpose of advancing communications. He said he felt it was best not to discuss price.

The March 28th "ARRL Newsletter" is quoted as saying that the citations, which represented a change in the FCC position on this issue, had been issued without prior coordination from Washington.

The ARRL indicates the FCC has not changed its position on this issue and status quo will continue.

In the main analysis, if we interpret the words correctly, the FCC would prefer you not let "swap net" participants give prices, but are not necessarily going to get upset if prices are quoted. If two net participants begin "horse trading" on an item, they may fall into a more serious category. Net control operators should make it clear at the beginning of each net, just what the format policies of his particular net are, and make net participants abide by these policies. For now the very popular (and important) swap nets can continue, but should be done cautiously.

ARRL SANCTIONED

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Lee Roy Searcy KB40KV
704/665-2217

Lightning! What to do about it.

—Tnx MATPARC Newsletter (Atl. Ga.)

Many people think lightning is getting worse, but in reality, lightning patterns have varied very little over the years. What has changed is the number and height of towers and tall buildings where equipment is located.

Solid-state equipment is more susceptible to lightning than the old tube-type gear. Keep in mind that no equipment is immune to a direct hit. Some lightning discharges can reach 150,000 amps! There is nothing that can be done to protect against a strong, direct hit, and since they are rare, it is best to not worry about them.

Weaker hits and near misses most often affect solid-state equipment and cause damage. A near miss can be described as a lightning discharge that hits a nearby object and either arcs over to your system or causes longitudinal stresses (high currents with the earth as a return path) on your antenna line, power line, or control lines.

The biggest problem is not lightning getting into the equipment. Most damage occurs when lightning tries to get back out, trying to find a path to ground. The search for an easy exit can take it through such things as the audio amplifiers, power amplifiers, power supplies, etc.

The first line of defense is to keep the lightning out; the second is, if some does come in, to give it an easy path out. Let's first concentrate on keeping the lightning out.

The most obvious starting point is the antenna system. The antenna is usually located at the high point of any area. The higher the antenna, the greater the chance it will hit. This can give the lightning a direct path into your equipment. There are several things that can be done to protect that equipment.

First, try to have lightning rods above the highest point of your antenna. The rods should be bonded to the tower. Using an antenna that is at dc ground also helps greatly. Secondly, the antenna should be bonded to the tower. Keep your antenna transmission line in close proximity to the tower leg all the way down the tower.

Next, make sure that the tower, if it is metal, is bonded to ground rods that surround the tower. If the soil in your area is not overly conductive, a counterpoise system should be used.

Then, whenever possible, the antenna line should be run close to the ground outside the building with at least one loop in the cable before entering the building. The bottom of this loop should be close to the ground, also. Once inside, the cable's copper jacket should be bonded to the ground system as far from the transmitter as possible. The route to the transmitter should include as many changes in direction as possible and these should come as close to right angles as the cable manufacturer allows for that type of cable. (Check the manufacturer's specifications for maximum bending radius). When the cable enters the cabinet, it should come through a bulkhead connector with a built-in lightning protector. An even better way is to mount the bulkhead connector on a bonded metal plate where the cable enters the building.

The control lines into your equipment can also introduce lightning into the transmitter or receiver. Near misses can cause as much damage as a direct hit. The best protection is the gas-discharge protector, installed at the demarcation point from the phone company. Tie several knots in the line before the equipment, then add gas discharge protectors in the equipment. The discharge protectors should be bonded to the ground system.

The last point of entry is the power line. Your best protection here is a transient protector that mounts at the fuse box for your equipment, the next best, the type that mounts in your equipment.

Up to this point we have been concerned with keeping lightning out of the equipment. Now, what do we do with the lightning that does get in? We want to give it the easiest path possible out!

The first rule is not to rely on your power line ground wire for protection. You should have a wire (at least 6 AWG) running from your equipment to the building should be equalized (bonded) and tied to that ground system. All ground lines should be as short and straight as possible. To be thorough, every rack unit in a cabinet should be bonded. For maximum protection, as many of these steps as possible should be followed.

The word "bonded" has shown up several times, and for those of you unfamiliar with the term, I will discuss it briefly.

Bonding means making a good electrical connection between two points. The term generally refers to making a good mechanical connection and then soldering that connection. Anything less than this can cause lightning to take a different path. If you are unsure of your system, contact a qualified electrical contractor or tower company with experience in lightning protection or the manufacturers of your equipment.

Lightning protection is not overly expensive, and when you consider that it might save your equipment from serious damage or even total destruction, it seems even cheaper.

Annual Board Meeting Sked Aug. 30 At Shelby

President Carter Cogle, K4ARO announced that the annual CVRA-SERA Board of Directors meeting will be held Saturday night, August 30 during the Shelby (NC) Hamfest. Directors and Vice Directors are urged to make plans to attend this very important Board meeting, or have an authorized voting representative of your District in Attendance.

Cogle said on top of the agenda was the appointing of a Nominating Committee for the upcoming election of Directors and Vice Directors at the end of the year. Nominations for a Director and Vice-Director will have to be established by the Committee for each of the seven CVRA—SERA Districts. Individual repeater owners in each District will have an opportunity to nominate "from the floor" with a nomination form to be published in the November Journal.

Other items on the agenda will include District Reports, re-writing of the Coordination Policy, and coordination packages.

Representatives from the individual FCC offices will be invited to attend, as well as Division ARRL Directors and Vice-Directors. Repeater owners, representatives and users are invited to attend the after dinner meeting if they wish.

The annual meeting is being moved to the Holiday Inn at Shelby this year, after being held the past several years at Governor's Inn. Cogle said the Holiday Inn facilities are much larger to accommodate the larger groups which are coming to the Board meetings.

Other repeater coordination groups who plan to attend the meeting should contact our treasurer, Ray Adams, N4BAQ. His address is on page 2 of the Journal.

Northern Kentucky Tower Fund for WM4T

Amateurs in Kentucky have established the "Northern Kentucky Tower Fund" to assist John Thernes, WM4T, with his legal expenses.

WM4T says his case, which has been remanded from the Federal Appeals Court back to the Federal District Court, has cost him over $16,000 in legal fees with no end in sight.

He is presently waiting for the District Court to set a hearing date for his case. WM4T hopes that this fund can eventually grow into a national fund to help other amateurs fighting restrictive tower ordinances. Anyone wishing to contribute to the fund can contact Northern Kentucky Tower Fund, P.O. Box 17721, Lakeside Park, Ky. 41017.

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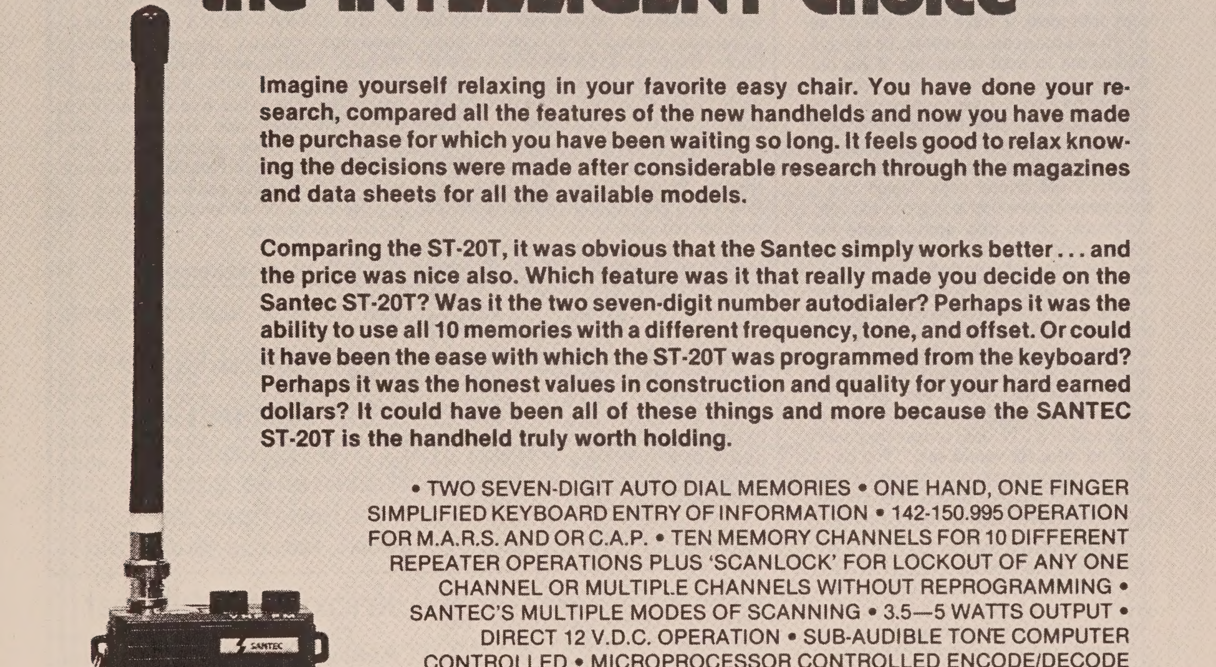

Imagine yourself relaxing in your favorite easy chair. You have done your research, compared all the features of the new handhelds and now you have made the purchase for which you have been waiting so long. It feels good to relax knowing the decisions were made after considerable research through the magazines and data sheets for all the available models.

Comparing the ST-20T, it was obvious that the Santec simply works better . . . and the price was nice also. Which feature was it that really made you decide on the Santec ST-20T? Was it the two seven-digit number autodialer? Perhaps it was the ability to use all 10 memories with a different frequency, tone, and offset. Or could it have been the ease with which the ST-20T was programmed from the keyboard? Perhaps it was the honest values in construction and quality for your hard earned dollars? It could have been all of these things and more because the SANTEC ST-20T is the handheld truly worth holding.

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Who's On CW?

— by Bill Hillman, NN8S
Tnx Klix & Chirps,
River Cities ARC, Ashland, KY

I've spent many hours lying here on this old rug by the fire listening to Master operate CW on the low bands. One day I got to thinking that maybe I could learn to operate CW.

My Master can really tick me off (no pun intended), I hate ticks almost as much as I hate cats. Anyway, he always makes me so mad when one of his old buddies drops in. Master is very proud of me and he always likes to show me off to his friends. Not that I mind but he will always say "speak boy, speak" then I have to bark my fool head off, then Master's old cronie says "spart dog". Everyone knows that a dog can't speak, our vocal cords just aren't made for speech, and it seems a wast of time t bark for some lid who doesn't know one bark from another. Now don't get me wrong, I love my master, but he can be such a lid at times. He has one weakness and that is a great love for CW. If I've heard him once, I've heard him a dozen times clear his throat and give the speech about not knowing who is on the other end of a CW QSO unless they send you the info. He would say, "You can't tell the age, sex, race or anything else about a CW contact unless they choose to tell you. Everyone is equal on CW."

Well, getting back to my story. I got to thinking that I could operate CW. One day when the family was out I decided to give it a try. I had difficulty in turning the rig on, but finally managed to get my old canine tooth hooked over the power knob. With a slight twist of my head the power was on. I didn't attempt to turn up the drive. I needed to practice first. The key wasn't all that difficult to use. In a few sessions I was as good with my left foot as Master is with his right hand. Since us dogs are a little longer on courage than humans it wasn't long before I turned up the drive and got on the air. Don't ever tell anyone, but I bootlegged Masters call and started working DX!

Now when Master goes into his long talk about how you never know the age, sex, or race of a CW operator, I sort of chuckle to myself and wish that I could add "species" to his list.

This brings me to the whole point of my story. One day a packet of QSL cards arrived from the "Buro". WHen Master was putting them on the wall of the shack I noticed one in particular. THe card had a DL call that I remembered working. I had a nice QSO with an operator named Trixie. Not exactly a German name, but I took it to be a lady. The card was one of those QSL's that had a picture of the station shack with equipment. A note on the card said "Tnx fer QSO, picture is of shack and Trixie." I scanned the picture for Trixie but could see not one person. Then I saw it! Masters tired old speech had finally came back to haunt me. "You never know who you'll meet on CW." There lying stretched out on a Kenwood HF Rig was Trixie, a #%*?@@# house cat!

Looking at the Amateur Census

— by Wayne C. Williams, K4MOB

Like a telephone book, I like to read through the Amateur Callbook, and when the FCC releases its Amateur Census each March, it always makes good reading.

The State of California continues to lead all other states in Amateur population with 57,560 licensed hams (more than all 7 CVRA-SERA states combined). Second remains New York with 25,991, third is Florida with 24,842 hams.

Other states in order of ham population include: Texas, Ohio, Illinois, Pennsylvania, Michigan, New Jersey and Washington rounding out the number ten spot.

The 1985 census lists a total of 415,856 licensed hams in the 50 States and other U.S. Possessions. Breaking down this total by class of license: Extra - 9.3%, Advanced - 23.5%, General 28.2%, Technician - 20.1%, and Novice 18.9%.

Since last year was the final year of FCC administered exams, all tests are now administered through VECs. During 1985, 41,439 amateurs were administered 62,589 examination elements with a pass rate of 58.17%.

In CVRA—SERA Territory, Amateur census figures include: Virgina, leading with 9,458. Second is North Carolina with 8,377 licensed amateurs. The other five CVRA-SERA States in order are: Georgia, 7,804; Tennessee, 7,596; Kentucky, 4,554; South Carolina, 3,601 and West Virginia with 3,037 amateur radio operators.

Here is a breakdown of each State by class of license:

AMATEUR CENSUS FOR CVRA-SERA STATES PLUS ALABAMA.

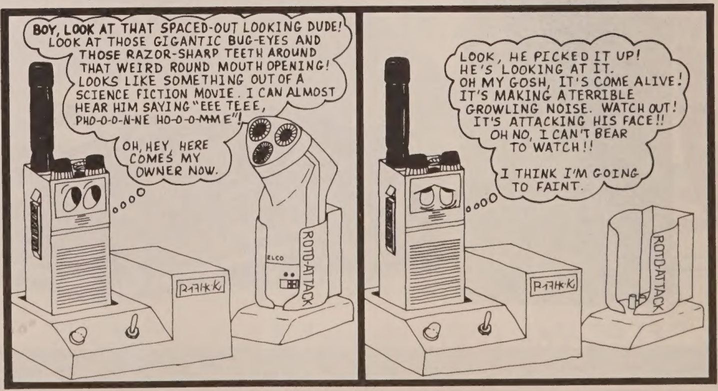
STATE	EXTRA	ADV	GEN	TECH	NOVICE	TOTAL
N.CAROLINA	781	2115	2453	1597	1431	8377
S.CAROLINA	340	871	1174	652	564	3601
TENNESSEE	699	1914	1872	1802	1309	7596
W.VIRGINIA	244	606	820	544	823	3037
VIRGINIA	1103	2385	2741	1611	1618	9458
KENTUCKY	366	951	1314	962	961	4554
GEORGIA	767	1919	2171	1616	1331	7804
ALABAMA	562	1316	1599	1314	1063	5854
TOTALS	4862	12077	14144	10098	9100	50281

Knoxville Hamfest

The Twentieth Anniversary Knoxville Hamfest and Computerfair, sponsored by the Radio Amateur Club of Knoxville, will be held on Saturday, May 25th and Sunday, May 26th

For general information and preregistration, send an SASE to Krikor Joradian KB4FCU, P.O. Box 1332, Knoxville, TN 37901.

Stubby *by Fred Hurteau, WD4SKH*


BOY, LOOK AT THAT SPACED-OUT LOOKING DUDE! LOOK AT THOSE GIGANTIC BUG-EYES AND THOSE RAZOR-SHARP TEETH AROUND THAT WEIRD ROUND MOUTH OPENING! LOOKS LIKE SOMETHING OUT OF A SCIENCE FICTION MOVIE. I CAN ALMOST HEAR HIM SAYING "EEE TEEE, PHO-O-O-N-NE HO-O-O-MMM E"!
OH, HEY, HERE COMES MY OWNER NOW.
ELCO
ROTO-ATTACK
LOOK, HE PICKED IT UP! HE'S LOOKING AT IT. OH MY GOSH, IT'S COME ALIVE! IT'S MAKING A TERRIBLE GROWLING NOISE. WATCH OUT! IT'S ATTACKING HIS FACE!! OH NO, I CAN'T BEAR TO WATCH!!
I THINK I'M GOING TO FAINT.
ROTO-ATTACK

ROANOKE VALLEY AMATEUR RADIO CLUB

26th ANNUAL MAYFEST

DATE: May 25, 1986
HOURS: 9:00 AM - 5:00 PM
LOCATION: Roanoke Civic Center
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2nd Prize: Ten-Tec 2-Meter Handheld

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WHEN: Hamfest May 25, 1986 at 8:00 AM

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WEST VIRGINIA NOTES

By: Ted Wolfe, WD4KHL

As I am no longer listed as being affiliated with a repeater, my eligibility to serve as West Virginia Director for CVRA-SERA is withdrawn. The mechanism to select a successor is in gear. I've referred two hams to the President of CVRA/SERA for them to determine the proper way to go about being a candidate. I hope they followed through.

• • • •

But I must write that President Cogle, K4ARO, was in error when he wrote that West Virginia did not have a Director OR a Vice-Director. Karl Morris, WB8GDY, St. Albans, is the Vice-Director (South). Karl has his own repeater and has kept his membership up and in all ways, remains a qualified officer.

I have heard it said that we no longer have a coordinator who is active. I remain the coordinator until such time as CVRA/SERA qualifies a successor as Director. When that occurs I will turn over to that individual all the files I have so that person can then carry on in the job. By no means will I leave the organization in a lurch if I can help it.

From my column in January you can see that I anticipated this change in stewardship. My personal situation is such at this time that I cannot be away from my father, who is 80, for more than four and one-half to five hours at a time as I must prepare all his meals. This also makes it nearly impossible for me to get out to attend hamfests, swapfests, etc. So, I am ready to turn over the reins to someone who has the time and freedom of movement to better represent CVRA/SERA.

(Editor's Note: we are sorry about information concerning Karl Morris being relayed erroniously to the West Virginia repeater owners. I was the one responsible for giving President Cogle a list of Directors and Vice-Directors who had not renewed for 1986. We regret that we apparently overlooked Karl's name as being renewed. Our apologies.)

• • • •

Just prior to the copy deadline for this issue I talked with Don Williams, WA4K, Bluefield, Va., who filled me in on how packet is catching on in that area. All of a sudden a half dozen or more in that area, mostly members of the East River ARC, are becoming active on the packet mode.

Among those listed by Don are: Charlie Herron, N4AMF; Randall Hash, WB4BBF; Don, WA4K; Don's son, Mark Williams, KJ4QQ (his new call); all of Bluefield, and Ira Hill, KE8AO, Princeton; Tim Ford, KC8IT, Herndon; Tom Mallory, N4AZJ, Bland; Jess Baker, K4OHL, Radford, Va.; and Mike Herrod, N8BHP, N8BHP, Scott Depot, WV. Mike is outside the Bluefield area and down in the lower Kanawha Valley but he was listed by Don since Mike is a member of ERARC.

In addition I was informed that Charles Marlowe, WB8CNN, Beckley, will be cooperating with a group of Covington, Va., hams to put a digipeater on somewhere in the Beckley area.

And Drema Bratton, Huntington, was listed as operating a digipeater, KA8EUU-1, in the Tri-State area. I hope I copied all the names and calls correctly as Don passed them along to me on the air.

• • • •

Spencer attorney Richard D. Frum, N8APG, has written to say his new Spencer repeater is up and running, operating from Bowers Hill, with approximately 100 watts ERP and coverage ranging to a radius of 50-miles during testing. The machine operates on 147.705/147.105 Mhz.

We are in the process of coordinating a 440-Mhz repeater in the Huntington area for David Taylor, KA8QYU. We'll give frequency details later. Also by next issue final approval should be in for two on that band in the Bridgeport area.

• • • •

The WV Amateur Radio Council has announced it will be prepared to administer FCC examinations at this year's 1986 WV State ARRL Convention and hamfest at Jackson's Mill. The event covers two days in July, the 5th and 6th, this year.

John Peterson, K8ZPH, Weirton, has been selected as West Virginia's Outstanding Amateur for 1985. Peterson was chosen by vote of previous winners. Announcement of this award formerly was a top item on the agenda at the state convention, but this year announcement was made early.

And speaking of the Council, I've been asked by a couple of hams what that proposal was that was brought up at the last meeting early in March with regard to frequency coordination. I've since asked two area hams who attended what it was all about and neither indicated an understanding of the proposal.

Please Turn to Next Page.

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FEEL FREE TO USE
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147.63 147.03
NEED INFORMATION, JUST KEY UP AND ASK!

WEST VIRGINIA NOTES

By: Ted Wolfe, WD4KHL

Continued

Is there a move underway by a small group to get CVRA/SERA out of West Virginia? As I represent CVRA/SERA until a replacement as Director is qualified, I would appreciate the Council advising me in advance by letter when they plan to discuss or act upon a matter such as coordination which is now handled in West Virginia by CVRA/SERA. With advance notice I might, despite my time limitations, be able to attend and respond.

• • • •

Clyde A. Marshall, WD8KOY, is a silent key. Clyde, an employee of Appalachian Power Company, died of a heart attack in March. He was stricken at his Putnam County home and died later in an area hospital.

• • • •

Owners of the 145.43 repeater in Charleston had their tower stolen by thieves. R.L. Monroe, whose W8WHQ call is on the repeater, said 35-feet of tower was taken from their mountain top site. He said the antenna, for a time, will be just off the ground so the service area may be reduced until such time as a new tower can be secured and erected.

Catch The Spirit of '86!

Help support CVRA-SERA who supports you. We badly need more Associate Members (repeater users).

Trend Toward Dues Increase Seems Favorable To Most

Every since we made mention of a possible dues increase in February, Directors and other volunteers have been taking unofficial polls at hamfests, and the overwhelming trend seems that very few care if dues are increased for CVRA-SERA.

The general consensus is that regardless of the price, the organization and the Journal is worth it. Some people have even suggested dues of $8.00 per year, one even thought $12.00 wouldn't be out of line.

It should be pointed out that CVRASERA being a Non-Profit, tax exempt organization cannot take in much more money that it spends, so we must key our membership fees to the cost of the organization.

The general feeling, supported by our Treasurer, is that $6.00 per year for Associate Membership and $12.00 to $15.00 per year for repeater memberships will probably be the amounts settled on July 1st when the President, Carter Cogle, K4ARO; Treasurer, Ray Adams, N4BAO and Editor of the Journal, Wayne C. Williams, K4MOB meet to make the final decision.

It was first hoped that hundreds of new memberships will hold down the cost per Journal, but the hundreds didn't materialize. It has also been brought out and with many strong feelings that many of the memberships do not want the Journal to be cut back in any way. The sentiment is to let the Journal continue to grow editorially and even work toward improving the book graphically and with more color.

It is obvious that a cap should be placed on how long a person could renew for in the future. Being a non-profit organization, CVRA-SERA is hurt more than it is helped with monies collected for years of memberships in advance. Presently we have numerous persons who are renewed for 3 to 5, even 7 years in advance. These renewals were obtained at lower costs, and we're having to provide a higher cost service at the present time, which makes for a losing situation.

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DIRECTOR, ROANOKE DIV.
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VIRGINIA BEACH, VA. 23454

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Name ______________________ Call __________
Street ______________________
City __________ Prov./State __________ PC/Zip __________
$25 in U.S./$30 in Canada/$33 elsewhere (U.S. funds)
Licensed amateurs, age 17 or under or age 65 or over, upon submitting proof of age, may request the special dues rate of $20 in the U.S. ($25 in Canada, $28 elsewhere, in U.S. funds)
For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.
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The By-City Index Appears
On Following Pages

2 METERS

5.01 /PKET	ENTERPRISE	AL
	ADEL	GA
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	CLARKSVILLE	GA
	COHUTTA	GA
	COLUMBUS	GA
	CUMMING/SAWNEE	GA
	FORSYTH	GA
	HAMILTON/PINE MT	GA
	HAMPTON	GA
	PERRY	GA
	ROBERTA	GA
	CHARLOTTE	NC
	CONCORD	NC
	GOLDSBORO	NC
	RALEIGH	NC
	SAURATOWN MT	NC
	SPIVEY MTN	NC
	ANDERSON	SC
	COLUMBIA	SC
	FLORENCE	SC
	SUMTER	SC
	KNOXVILLE	TN
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	PIKEVILLE	TN
	SHORT MT	TN
	CHARLOTTESVILLE	VA
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	ST ALBANS	WV
5.05 /PKET	MACON	GA
	WARNER ROBINS	GA
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5.23 /PKET	HAMPTON	VA
5.33 /PKET	MEMPHIS	TN
6.50 /2.525	CLARKSBURG	WV
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4.51 /5.11	MONTGOMERY	AL
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	MYRTLE BEACH	SC
	KNOXVILLE	TN
	RICHMOND	VA
	SALT ROCK	WV
4.53 /5.13	OZARK	AL
	NEWNAN	GA
	VALDOSTA/TIFTON	GA
	AHOSKIE	NC
	GREENWOOD/HODGES	SC
	CHATTANOOGA-RTTY	TN
	LAFOLLETTE	TN
	GALAX/LKOUT MT	VA
4.55 /5.15	BESSEMER	AL
	PIKEVILLE	EK
	ALBANY	GA
	ATLANTA/GA TECH	GA
	MILLEDGEVILLE	GA
	MORENTN/HI PK	NC
	DECATUR-PONE KB	TN
	FRANKLIN	TN
	MARMET/BEE MT	WV
	MARTINSBURG	WV
4.57 /5.17	JONESBORO	GA
	NEWTON	NC
	OXFORD	NC
	LENOIR CITY	TN
	MURFREESBORO	TN
	BOLT MT	WV
4.59 /5.19	BIRMINGHAM	AL
	HAMILTON/PINE MT	GA
	MT MITCHELL	NC
	JASPER	TN
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4.61 /5.21	TYRONE	GA
	VALDOSTA	GA
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	TRENTON	NC
	GASTON	SC
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4.63 /5.23	BIRMINGHAM	AL
	MIDDLESBORO	EKY
	DALTON	GA
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	CHARLOTTE	NC
	MUFREESBORO	TN
	BEDFD/APL ORCH	VA
	LOGAN	WV
4.65 /5.25	DALTON	GA
	FOREST PARK	GA
	GOLD HILL/GBO	NC
	CHARLESTON	SC
	FISHERVILLE	TN
	NASHVILLE	TN
5.65 /5.25	DALTON	GA
4.67 /5.27	WALESKA/PNLGMT	GA
	HENDSVL/BERWLW M	NC
	RALEIGH	NC
	HENDERSONVILLE	TN
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	MANASSAS	VA
	CRAIGSVILLE	WV
4.69 /5.29	PRESTONSBURG	EKY
	ATLANTA	GA
	ROSWELL	GA
	CHARLOTTE	NC
	SHALLOTTE	NC
	CHATTANOOGA	TN
	ELZ/JC/HLST MT	TN
	NASHVILLE	TN
	CHESAPEAKE	VA
	ELKINS	WV
4.71 /5.31	ATLANTA	GA
	COLUMBUS	GA
	ROANOKE RAPIDS	NC
	ROCK HILL	SC
	ATHENS	TN
	JACKSON	TN
	ALEXANDRIA	VA
	LAYLAND/MANN MT	WV
4.73 /5.33	JONESBORO	GA
	MT AIRY/TRNR MT	NC
	BAMBERG	SC
	CUMBERLAND CTY	TN
	KNOXVILLE	TN
	PARSONS	WV
	WILLIAMSON	WV
4.75 /5.35	TUSCALOOSA	AL
	HARLAN	EKY
	DECATUR	GA
	ROSSVILLE	GA
	SANDY SPRINGS	GA
	CHARLOTTE	NC
	GREENVILLE	NC
	HUMBOLDT	TN
	NASHVILLE	TN
	BLAND	VA
	FALLS CHURCH	VA
4.77 /5.37	PELL CITY	AL
	COLUMBUS-RTTY	GA
	JASPER	GA
	N. WILKESBORO	NC
	KNOXVILLE	TN
	GLOUCESTER	VA
	BECKLEY/EOC	WV
4.79 /5.39	BESSEMER	AL
	GRIFFIN	GA
	MONROE	NC
	RALEIGH	NC
	CHATTANOOGA	TN
	GREENEVILLE	TN
	HERMITAGE	TN
	STANTONVILLE	TN
	GALAX	VA
	WESTON	WV
4.81 /5.41	ATLANTA/BELL	GA
	HIGH POINT	NC
	WILLIAMSTON	NC
	GREENEVILLE	TN
	MEMPHIS	TN
	LIBERTY	WV
4.83 /5.43	DOTHAN	AL
	LINEVILLE	AL
	ATLANTA/SWEAT MT	GA
	MACON	GA
	SPARTA/GREEN MT	NC
	COLUMBIA	SC
	KNOXVILLE	TN
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	CHARLESTON	WV
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4.85 /5.45	LEXINGTON	EKY
	ATLANTA	GA
	JACKSONVILLE(FL)	GA
	CROWDERS MT	NC
	DURHAM	NC
	NEWPORT	NC
	BENTON	TN
	SPRING HILL	TN
	WELCH	WV
4.87 /5.47	SWEAT MTN	GA
	KINSTON	NC
	LILLINGTON	NC
	SAUROTOWN MT	NC
	INMAN	SC
	KNOXVILLE	TN
	MOUNTAIN CITY	TN
	NASHVILLE	TN
	ARLINGTON	VA
	KINGSTON/LICK KB	WV
4.89 /5.49	LINCOLN	AL
	AUGUSTA	GA
	CORDELE	GA
	MARIETTA	GA
	FRANKLIN	NC
	RALEIGH	NC
	RKY RDG/WALLACE	SC
	MCMINVL/SHT MT	TN
	MEMPHIS	TN
	BLUEFIELD	VA
	BLUEFIELD	WV
5.175/5.775	WRENS	GA
6.655/6.055	BROWNSVILLE	TN
6.835/6.235	HAMILTON	GA
6.895/6.295	HARTWELL	GA
6.925/6.325	COVINGTON	GA
6.01 /6.61	COLUMBUS	GA
	WARNER ROBINS	GA
	GREENSBORO	NC
	NEW BERN	NC
	CHELSEA	SC
	GRNVLE/CSRS HD	SC
	MYRTLE BEACH	SC
	CHATTANOOGA	TN
	NASHVILLE	TN
	BROMLEY MT	VA
	CHESAPEAKE	VA
	LYNCHBURG	VA
	SPENCER	WV
6.025/6.625	UNION CITY	GA
	VIDALIA	GA
	LAURINBURG	NC
	CHESTER	SC
	MARTIN	TN
	BLUFLD/ER MT	VA
	NEW MARKET	VA
6.04 /6.64	PINEVILLE	EKY
	AMERICUS	GA
	AUGUSTA	GA
	CARROLLTON	GA
	WAYCROSS	GA
	HENDERSONVILLE	NC
	RALEIGH	NC
	WINSTON-SALEM	NC
	SUMTER	SC
	CROSSVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	FINCASTLE	VA
	MARION	VA
	RICHMOND	VA
	BUCKHANNON	WV
	HUNTINGTON/CHAS	WV
6.055/6.655	MARIETTA	GA
	CONCORD/KANNAP.	NC
	ELIZABETH CITY	NC
	CHATT/SIGNAL MT	TN
	ALEXANDRIA	VA
	ALTAVISTA	VA
6.06 /6.66	MACON	GA
6.07 /6.67	GREENVILLE	AL
	HAZARD	EKY
	GAINESVILLE	GA
	JESUP	GA
	BURLINGTON	NC
	CHERRY MT	NC
	HALIFAX	NC
	MT PLEASANT	SC
	BRISTOL	TN
	COOKEVILLE	TN
	LAFOLLETTE/WMT	TN
	NASHVILLE S.W.	TN
	BARREN SPRINGS	VA
	LEXINGTON	VA
	WILLIAMSBURG	VA
	RAVENSWOOD	WV
6.08 /6.68	MUSCLE SHOALS	AL
6.085/6.685	FOLEY GULF SHR.	AL
	ADAIRSVILLE	GA
	FAYETTEVILLE	GA
	GRIFTON	NC
	STATESVILLE	NC
	NEWBERRY	SC
	WAVERLY	TN
	VIENNA	VA
6.10 /6.70	ANNISTON	AL
	GRAYSON	EKY
	ALBANY	GA
	JASPER	GA
	MILLEDGEVILLE	GA
	SAVANNAH	GA
	DUNN	NC
	LANCASTER	SC
	FRAYSER	TN
	MANCHESTER	TN
	UNION CITY	TN
	DANVILLE/WHT OAK	VA
	DUFFLD/POWLL MT	VA
	NORFOLK	VA
	STAUNTON	VA
	RAVENSWOOD	WV
6.115/6.715	RINGGOLD	GA
	MILLERS CREEK	NC
	SPRING LAKE	NC
	BLACKSBURG	VA
	STERLING	VA
	GASSAWAY	WV
	SHERRARD	WV
6.12 /6.72	PHENIX CITY	AL
	ST ALBANS/COAL	WV
6.13 /6.73	LOUISA	EKY
	ALBANY	GA
	BRUNSWICK	GA
	COLUMBUS	GA
	MARIETTA	GA
	SWEAT MT	GA
	RALEIGH	NC
	SALISBURY	NC
	WILMINGTON	NC
	N. AUGUSTA	SC
	SIMPSONVILLE	SC
	KNXVL/ENG MT	TN
	LEBANON	TN
	MEMPHIS	TN
	HAMPTON	VA
	ALDERSON	WV
6.14 /6.74	MUNFORD	AL
6.145/6.745	ATHENS	GA
	DILLON/PEE DEE	SC
	DYERSBURG	TN
	ROANOKE/POOR MT	VA
6.16 /6.76	ATLANTA	GA
	VALDOSTA	GA
	ASHVL/MT PISGAH	NC
	GREENSBORO	NC
	SWANSBORO	NC
	WILSON	NC
	CHARLESTON	SC
	FT JACKSON	SC
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	CHARLOTTESVILLE	VA
	LYNCHBURG	VA
	HUNTINGTON	WV
	MORGANTOWN	WV
	WHEELING	WV
6.175/6.775	MARIETTA	GA
	CHARLOTTE/RTTY	NC
	ELIZABETHTOWN	NC
	PULASKI/MUS MT	TN
	WYTHEVILLE	VA
6.18 /6.78	HALEYVILLE	AL
6.19 /6.79	PIKEVILLE	EKY
	FOLKSTON	GA
	MOULTRIE	GA
	NEWNAN	GA
	SWAINSBORO	GA
	CLINTON	NC
	SAURATOWN MT	NC
	ANDERSON/SAS MT	SC
	CHARLESTON	SC
	CHATTANOOGA	TN
	JOHNSON CITY	TN
	NASHVILLE	TN
	CHESAPEAKE	VA
	FAIRFAX	VA
	SUMMERLEE MT	WV
6.205/6.805	MILLEDGEVILLE	GA
	FAYETTEVILLE	NC
	GASTONIA	NC
	COVINGTON	VA
7.405/6.805	MAGGIE VALLEY	NC

REPEATERS BY FREQUENCY CONTINUED

5.22 /6.82	FLORENCE	AL
	ALBANY	GA
	ATLANTA	GA
	LYONS	GA
	ROARING GAP	NC
	WILMINGTON	NC
	GRNVLE/PARIS MT	SC
	LAKE CITY	TN
	MEMPHIS	TN
	WINCHESTER	TN
	WINCHESTER	VA
	CHARLESTON	WV
	CLARKSBURG	WV
5.235/6.835	AUGUSTA	GA
	HAMPTON	GA
	ASHEVILLE	NC
	NAGS HEAD/BODIE	NC
	WADESBORO	NC
	HAZEL MT	VA
7.435/6.835	HIGH POINT	NC
6.24 /6.84	DOTHAN	AL
	WARRIOR	AL
5.25 /6.85	PIKEVILLE	EKY
	DALLAS	GA
	LAGRANGE	GA
	WARNER ROBINS	GA
	GOLDSBORO	NC
	HICKORY/BRT. MT	NC
	REIDSVILLE	NC
	FLORENCE	SC
	LAURENS	SC
	GTLBG/COVE MTN	TN
	MEMPHIS	TN
	NASHVILLE	TN
	PORTSMOUTH	VA
	STAUNTON	VA
	BKLY/FLAT TOP MT	WV
	BUCKHANNON	WV
6.265/6.865	MADISON	GA
	GREENWOOD/HODGES	SC
	FAYETTEVILLE	TN
7.465/6.865	WAXHAW	NC
6.28 /6.88	PRESTONSBURG	EKY
	COLUMBUS	GA
	MARIETTA	GA
	QUITMAN	GA
	SAVANNAH	GA
	RALEIGH	NC
	SHELBY	NC
	COLUMBIA	SC
	BRISTOL	TN
	MEMPHIS	TN
	NASHVILLE	TN
	OAK RIDGE	TN
	BRISTOL	VA
	RICHMOND	VA
	SALEM	VA
	CHARLESTON	WV
6.295/6.895	MADISON	NC
	WAXHAW	NC
6.30 /6.90	JASPER	AL
	FAIRMONT	WV
6.31 /6.91	MOREHEAD	EKY
	CLEVELAND/LONG	GA
	GRIFFIN	GA
	AHOSKIE	NC
	ASHVL/SPIVEY MT	NC
	FAYETTEVILLE	NC
	LEXINGTON	NC
	WHITE HALL	SC
	SAVANNAH	TN
	SHORT MTN	TN
	FARMVILLE	VA
	JONESVILLE	VA
	MT. LK/BALD KNB	VA
	TYSONS CORNER	VA
	FAIRMONT	WV
	MCMECHEN	WV
	RIPLEY	WV
6.32 /6.92	WATUMNPKA/MONT	AL
6.325/6.925	ROCK HILL	SC
	CHARLOTTESVILLE	VA
	DANVILLE(DCC)	VA
	ONEIDIA PEAK	VA
6.34 /6.94	ASHLAND	EKY
	AUGUSTA	GA
	ROME	GA
	WRIGHTSVILLE	GA
	BURGAW	NC
	CHARLOTTE	NC
	DURHAM	NC
	MANTEO	NC
	MT AIRY-RTTY	NC
	CHARLESTON	SC
	GREENVILLE	SC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	HAMPTON	VA
	RICHMOND	VA
	ROANOKE	VA
	SUMMERSVILLE	WV
	WEIRTON	WV
7.94 /6.94	NEW MARTINSVLLE	WV
6.355/6.955	PERRY	GA
	YNG HRS/RAV CLIF	GA
	ROCKINGHAM	NC
	EAST RIVER MNT	WV
6.36 /6.96	MOULTON	AL
6.37 /6.97	BREWTON	AL
	ATLANTA	GA
	SAVANNAH	GA
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	SMITHFIELD	NC
	ANDERSON	SC
	FLORENCE	SC
	KNGSPT/BAYS MT	TN
	MCMINNVILLE	TN
	MEDINA	TN
	OAK RIDGE	TN
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	STAUNTON	VA
	VIRGINIA BEACH	VA
	LOGAN/WARD RK MT	WV
	PARKERSBURG	WV
6.38 /6.98	DOUBLE OAK MT	AL
6.385/6.985	AUGUSTA	GA
	ELLIJAY	GA
	PRESTON	GA
	ALBEMARLE	NC
	OLD FORT	NC
	ROANOKE/POOR MT	VA
6.40 /7.00	ATLANTA	GA
	HIGH POINT	NC
	JACKSONVILLE	NC
	MARION	SC
	PICKENS	SC
	MEMPHIS	TN
	SUFFOLK	VA
	ST ALBANS	WV
7.60 /7.00	LANETT	AL
	ELKHORN CITY	EKY
	HIGH POINT	NC
	BLOUNTVILLE	TN
	CHATT/SIGNAL MT	TN
	CLARKSVILLE	TN
	TERRA ALTA	WV
7.615/7.015	CLEVELAND/LONG	GA
	WARNER ROBINS	GA
	LK NORMN/CLT	NC
	SUMTER	SC
	NASHVILLE	TN
	FREDRICKSBURG	VA
7.62 /7.02	PELL CITY	AL
6.43 /7.03	ROCK HILL	SC
	LEXINGTON	TN
	MILLINGTON/NB	TN
	RICHMOND	VA
7.63 /7.03	ATLANTA/AIRPORT	GA
	GREENSBORO	NC
	ROANOKE RAPIDS	NC
	BARNWELL	SC
	MYRTLE BEACH, N	SC
	FAYETTEVILLE	TN
	MEMPHIS	TN
	MORRISTOWN	TN
	WAYNESBORO/FMS	VA
	MULLENS/HRNDN MT	WV
	ST MARYS/BENS R	WV
6.445/7.045	FAYETTEVILLE	NC
	HOPE MILLS	NC
	ROB/JOANNA BLD	NC
	YOUNGSVILLE	NC
	ARLINGTON	VA
7.645/7.045	METTER	GA
	STATSVL/ASBRY MT	NC
	RADFORD	VA
	STAUNTON/EL. KB	VA
	VIRGINIA BEACH	VA
6.06 /7.06	MADISON	WV
6.46 /7.06	COHUTTA-RTTY	GA
	CHARLOTTE	NC
	MEMPHIS	TN
	SOUTH BOSTON	VA
	PRINCETON	WV
7.66 /7.06	TUSCALOOSA	AL
	MACON	GA
	ROSWELL	GA
	THOMASVILLE	GA
	MACO	NC
	SUMTER	SC
	GRNVLE/GRYSTN	TN
	SHELBYVILLE	TN
	CHESTERFLD CO	VA
	POINT PLEASANT	WV
6.475/7.075	BURLINGTON	NC
7.675/7.075	SNELLVILLE	GA
	BURLINGTON	NC
	GOOSE CREEK	SC
	KNOXVILLE	TN
	WAYNSBR/AFTON MT	VA
7.68 /7.08	MT CHEAHA	AL
7.69 /7.09	PAINTSVILLE	EKY
	ST SIMONS ISL	GA
	GREENVL/ESTN NC	NC
	ORANGEBURG	SC
	SPARTANBURG	SC
	SPARTA/BON AIR	TN
	GALAX/BRIRP MT	VA
7.70 /7.10	HUNTSVILLE	AL
7.705/7.105	ATLANTA	GA
	MARION/BEAR WLW	NC
	MONROE/UCARS	NC
	BEDFORD	VA
	SPENCER	WV
6.09 /7.11	LOGAN	WV
7.72 /7.12	WINCHESTER	EKY
	AUGUSTA	GA
	CEDARTOWN	GA
	GAST/SPCR MT	NC
	MAYODAN	NC
	ROCKY MOUNT	NC
	MYRTLE BEACH	SC
	MEMPHIS	TN
	OAK RIDGE	TN
	CULPEPPER	VA
	BRIDGEPORT	WV
	DUNBAR	WV
7.735/7.135	DALTON	GA
	VALDOSTA	GA
	BREVARD/RICH MTN	NC
	CHERAW	SC
	ALAMO	TN
	GALAX/FRIES	VA
	RICHMOND	VA
7.74 /7.14	HUEYTOWN	AL
7.745/7.145	MT. STERLING	EKY
7.75 /7.15	ALBANY	GA
	CUMMING/SAWNEE	GA
	MORGANTON	NC
	RALEIGH	NC
	MONCKS CORNER	SC
	SIMPSONVILLE	SC
	MEMPHIS	TN
	NASHVILLE	TN
	OAK RIDGE	TN
	TAZEWELL	VA
	ST ALBANS/COAL	WV
7.765/7.165	HIGH POINT	NC
	GREENWOOD	SC
	PARIS	TN
	PURYEAR	TN
	NEWPORT NEWS	VA
	WARRENTON	VA
7.78 /7.18	AUGUSTA	GA
	BALDWIN	GA
	SYCAMORE	GA
	SANFORD	NC
	WILMINGTON	NC
	FT MILL/CAROWND	SC
	GOOSE CREEK	SC
	CLEVELAND	TN
	MEMPHIS	TN
	NASHVILLE	TN
	PETERSBURG	VA
	PKS KB/PULASKI	VA
	LEON	WV
7.795/7.195	ATLANTA	GA
	MURPHY	NC
	LYNCHBURG	VA
7.80 /7.20	HEADLAND	AL
7.81 /7.21	CONYERS	GA
	DALTON	GA
	STATESBORO	GA
	GREENSBORO	NC
	WHITEVILLE	NC
	LITTLE MT.	SC
	COOKEVILLE	TN
	JACKSON	TN
	MCLEAN	VA
	WISE/HIGH KNOB	VA
7.825/7.225	HILLSBOROUGH	NC
	LAKE MARION	SC
	MORRISTOWN	TN
	NARROWS/DISML PK	VA
	YORKTOWN	VA
7.84 /7.24	ENTERPRISE	AL
	ASHLAND	EK
	IRWINTON	GA
	CARTHAGE	NC
	EDEN/MAYODAN	NC
	FOREST CITY	NC
	FRANKLIN	NC
	LANCASTER	SC
	GALLATIN	TN
	MEMPHIS	TN
	PETERSBURG	VA
	WOODBRIDGE	VA
7.855/7.255	ATLANTA	GA
	ASHEBORO	NC
	HENDSVL/PINCK MT	NC
	ACCOMAC	VA
	MARTINSBURG	WV
7.885/7.255	DONELSON	TN
7.86 /7.26	FORT PAYNE	AL
7.87 /7.27	PIKEVILLE	EK
	AMERICUS	GA
	BENSON	NC
	WAYNESVILLE	NC
	CHARLESTON	SC
	SENECA/LONG MT	SC
	GALLATIN	TN
	JOHNSON CITY	TN
	GUM SPRING	VA
	SCOTT DEPOT	WV
7.885/7.285	ASHBURN	GA
	ATLANTA/GPCO	GA
	AIKEN	SC
	ROCKY SPUR	SC
	PIKEVILLE	TN
	MARTINSVILLE	VA
7.90 /7.30	HUNTSVILLE	AL
	TUSCALOOSA	AL
	SVR CRK/MT ALTO	GA
	WARNER ROBINS	GA
	GLENDALE SPGS	NC
	JACKSONVILLE	NC
	LUMBERTON	NC
	TUCKASEGEE	NC
	CHARLESTON	SC
	KNOXVILLE	TN
	MEMPHIS	TN
	NASHVILLE	TN
	FRANKLIN	VA
	LEXINGTON	VA
	WINCH/BLUEMONT	VA
	HARRISVILLE	WV
	HUNTINGTON	WV
7.915/7.315	YNG HRRS/RCKY TP	GA
	UNION CROSS	NC
	ALEXANDRIA	VA
	CLARKSBURG	WV
7.92 /7.32	GRUNDY	VA
7.93 /7.33	ASHLAND	EKY
	LAGRANGE	GA
	TOCCOA	GA
	FAYVLLE/FT BRAGG	NC
	LENOIR/HIBRITN	NC
	COLUMBIA	SC
	COVINGTON	TN
	CROSSVILLE	TN
	NASHVILLE	TN
	LEXNGTN/COLE MT	VA
	WARSAW	VA
7.94 /7.34	BIRMINGHAM	AL
	DOTHAN	AL
	ATLANTA/SWEAT MT	GA
7.945/7.345	LYNCH/BLACK MT	EKY
	SHELBY	NC
	WASHINGTON	NC
	HENDERSONVILLE	TN
	GATE CITY	VA
	WYTHE/PULASKI	VA
	FRANKLIN	WV
7.95 /7.35	DANVILLE	VA
7.96 /7.36	DOUGLASVILLE	GA
	DUBLIN	GA
	BOONE/RICH MTN	NC
	LUMBERTON	NC
	SUMMERVILLE	SC
	KNXVL/CROSS MT	TN
	MEMPHIS	TN
	NASHVILLE S.	TN
	PARIS	TN
	CHESTERFIELD	VA
7.97 /7.37	AUGUSTA	GA
7.975/7.375	BURNSVILLE	NC
	GREENVILLE	NC
	GEORGETOWN	SC
	HILLSVILLE	VA
	LYNCHBURG	VA
	NEWPORT NEWS	VA
	GRAFTON	WV
	ST ALBANS	WV
7.98 /7.38	GUNTERSVILLE	AL
7.99 /7.39	JENKINS	EKY
	THOMASTON	GA
	CHARLOTTE	NC
	EDEN/STONEVILLE	NC
	SMITHFIELD	NC
	LEXINGTON	SC
	DAYTON/RHEA CTY	TN
	GALLATIN	TN
	MADISON	VA
	PETERSBURG	VA
	PARKERSBURG	WV
6.19 /7.51	MEMPHIS	TN
7.015/7.615	MARIETTA	GA
	UNION CITY	TN
7.225/7.825	CLOUDLAND	GA
7.285/7.885	BIRMINGHAM	AL
7.30 /7.90	ROME	GA
7.315/7.915	FORSYTH	GA
7.375/7.975	ATHENS	GA
	GREENVILLE	SC

220 MHZ

3.70 /PKET	SAWNEE MT/CUMMIN	GA
2.12 /3.72	LOUISA	EK
	STERLING PK	VA
2.30 /3.90	HERMITAGE	TN
2.32 /3.92	HIGH POINT	NC
2.34 /3.94	ASHLAND	EK
	ATLANTA/SWEAT MT	GA
	ASHVL/MT PISGAH	NC
	HILLSBOROUGH	NC
	CLARKSVILLE	TN
	MEMPHS/FRAYSER	TN
2.36 /3.96	ROCKY MOUNT	NC
2.38 /3.98	LINWOOD	NC
	GREER	SC
	GALLATIN	TN
2.40 /4.00	LOCUST	NC
	PETERSBURG	VA
2.42 /4.02	FAYETTEVILLE	NC
	HICKORY	NC
	NASHVILLE	TN
2.46 /4.06	BUCHANAN/HARALSO	GA
	EASLEY/SASFRS MT	SC
2.48 /4.08	NASHVILLE	TN
2.50 /4.10	FAIRFAX	VA

REPEATERS BY FREQUENCY

	ROANOKE	VA
2.52 /4.12	ATLANTA/SWEAT MT	GA
	LITTLE MT	SC
2.54 /4.14	BESSEMER	AL
	LUMBERTON	NC
	PICKENS/CSRS HD	SC
	FRANKLIN	TN
	HUNTINGTON	WV
2.56 /4.16	LENOIR/HIBRITN	NC
2.58 /4.18	HICKORY VALLEY	TN
2.60 /4.20	MOORESBORO	NC
2.62 /4.22	NASHVILLE	TN
2.64 /4.24	HENDSVL/BERWLW M	NC
2.70 /4.30	STATESVILLE	NC
2.74 /4.34	CANTON	GA
	CANTON	GA
	FRIES/PT LKOUT	VA
2.76 /4.36	MARSHALL	NC
2.80 /4.40	CHARLT/MINT HL	NC
2.86 /4.46	KNOXVILLE	TN
2.88 /4.48	N. WILKESBORO	NC
2.90 /4.50	KNOXVILLE	TN
2.94 /4.54	MT MITCHELL	NC
2.98 /4.58	PIKEVILLE	EK
3.00 /4.60	ASHEVILLE	NC
3.02 /4.62	PIKEVILLE	EK
3.04 /4.64	RALEIGH	NC
	WINSTON-SALEM	NC
3.06 /4.66	ATLANTA/SWEAT MT	GA
3.08 /4.68	LK NORMN/CLT	NC
3.10 /4.70	SAURATOWN MT	NC
3.12 /4.72	MT. TOXAWAY	NC
	TYSONS CORNER	VA
3.14 /4.74	MARIETTA	GA
	KINGSTON/LICK KB	WV
3.16 /4.76	SALISBURY	NC
	DAN/WHT OAK	VA
3.18 /4.78	CHATTANOOGA	TN
3.20 /4.80	MORGANTON	NC
3.22 /4.82	ATLANTA	GA
	GREENSBORO	NC
	KNOXVILLE	TN
	ALEXANDRIA	VA
3.28 /4.88	BUCHANAN/HARALSO	GA
	DALTON	GA
	SAURATOWN MT	NC
3.30 /4.90	COLUMBIA	SC
	CHATT/SIGNAL MT	TN
3.32 /4.92	CHAPEL HILL	NC
3.34 /4.94	PLEASANT GROVE	AL
	BUCHANAN/HARALSO	GA
	JACKSONVILLE(FL)	GA
	ROSSVILLE	GA
	GREENEVILLE	TN
	ROANOKE/POOR MTN	VA
3.36 /4.96	CHERRYVILLE	NC
3.38 /4.98	FALLS CHURCH	VA

440 MHZ

9.45 /5.67	LAWRENCEVILLE	GA
4.25 /1.25	MT MITCHELL	NC
9.25 /1.25	SAURATOWN MT	NC
	LEXINGTON	SC
	CHARLESTON	WV
	LEWISVILLE	NC
	NORFOLK	VA
	ALEXANDRIA	VA
	ALBANY	GA
	SHELBY	NC
	SUMTER	SC
	CHATT/SIGNAL MT	TN
7.00 /2.00	PICKENS/CSRS HD	SC
	WINCHESTER	VA
7.05 /2.05	MORGANTON	NC
	JASPER	TN
	MEDINA	TN
7.10 /2.10	EDEN	NC
	MILAN	TN
7.15 /2.15	RALEIGH	NC
7.20 /2.20	JACKSON	TN
7.25 /2.25	COVINGTON	VA
7.325/2.325	CHATTANOOGA	TN
7.50 /2.50	SYLACAUGA	AL
	KNOXVILLE	TN
	ROANOKE/POOR MT	VA
7.55 /2.55	CONYERS	GA
7.70 /2.70	ROANOKE	VA
7.80 /2.80	JACKSON	TN
	MEMPHIS	TN
7.825/2.825	JACKSON	TN
7.90 /2.90	TUSCALOOSA	AL
	HIGH POINT	NC
8.00 /3.00	CHATSWORTH	GA
	MEMPHIS	TN
8.10 /3.10	LYNCH/BLACK MT	EK
	SAURATOWN MT	NC
	GREENVILLE	SC
8.145/3.145	AUGUSTA	GA
8.20 /3.20	MARIETTA	GA
	HICKORY VALLEY	TN
8.30 /3.30	CLANTON	AL
	GATLBG/COVE MT	TN
8.40 /3.40	MEMPHIS	TN
8.50 /3.50	ATLANTA	GA
	GREENSBORO	NC
	PARIS/GROVE HL	TN
	TYSONS CORNER	VA
8.55 /3.55	WILKESBORO	NC
8.550/3.550	ATLANTA	GA
8.60 /3.60	MT MITCHELL	NC
8.65 /3.65	HAMPTON	VA
8.70 /3.70	HIGH POINT	NC
	LOCUST	NC
8.75 /3.75	ALAMO	TN
	FINCASTLE	VA
8.30 /3.80	MANASSAS	VA
8.80 /3.80	HUEYTOWN	AL
	NORTHWEST/SE VA	VA
8.85 /3.85	FRANKLIN	TN
8.875/3.875	CHAPEL HILL	NC
	CAESARS HEAD	SC
8.90 /3.90	GRIFFIN	GA
	CHESAPEAKE	VA
	SALUDA	VA
8.95 /3.95	WILLIAMSBURG	VA
9.00 /4.00	CHEAHA MTN	AL
	LAWRENCEVILLE	GA
	HICKORY	NC
	RICHMOND	VA
	HERNDON/HRNDN MT	WV
9.05 /4.05	DOTHAN	AL
	WAYNSBR/AFTON MT	VA
8.10 /4.10	FAYETTEVILLE	TN
9.10 /4.10	JACKSONVILLE(FL)	GA
	DURHAM	NC
	COLUMBIA	SC
	CHATTANOOGA	TN
	MEMPHIS	TN
9.15 /4.15	ATLANTA/BELL	GA
	NASHVILLE	TN
	LEXNGTN/COLE MT	VA
	SPRINGFIELD	VA
9.20 /4.20	BIRMINGHAM	AL
	COLUMBUS	GA
	DECATUR	GA
	AHOSKIE	NC
	MORRISTOWN	TN
9.25 /4.25	ATLANTA	GA
	HENDSVL/BERWLW M	NC
	SMYRNA	TN
	CHARLOTTESVILLE	VA
4.90 /4.30	BIRMINGHAM	AL
9.30 /4.30	NEWTON	NC
	FISHERVILLE	TN
	HOOVER(ALA)	TN
	KNOXVILLE	TN
	WAYNESBORO	VA
8.35 /4.35	N. WILKESBORO	NC
9.35 /4.35	VALDOSTA	GA
	GALLATIN	TN
	BEDFD/APL ORCH	VA
9.40 /4.40	FAYETTEVILLE	NC
	OAK RIDGE	TN
9.425/4.425	ALTAVISTA	VA
9.45 /4.45	LAWRENCEVILLE	GA
	GALLATIN	TN
	FALLS CHURCH	VA
9.50 /4.50	ATLANTA	GA
	LEXINGTON	NC
	MEMPHIS	TN
	LYNCHBURG	VA
	HUNTINGTON	WV
9.55 /4.55	BIRMINGHAM	AL
	RIVERDALE	GA
	NASHVILLE	TN
9.60 /4.60	CHARLOTTE	NC
	KNOXVILLE	TN
	ALEXANDRIA	VA
9.625/4.625	ATLANTA	GA
9.65 /4.65	SALISBURY	NC
	WILLIAMSTON	NC
	GREENEVILLE	TN
	RICHMOND	VA
9.675/4.675	NASHVILLE	TN
9.70 /4.70	HUEYTOWN	AL
	ROCKY MOUNT	NC
	WILMINGTON	NC
	MT PLEASANT	SC
	KNOXVILLE	TN
	MORGANTOWN	WV
9.735/4.735	DALTON	GA
9.75 /4.75	ROCK HILL	SC
	ELIZ/HOLSTON MT	TN
	TYSONS CORNER	VA
9.775/4.775	NASHVILLE	TN
9.80 /4.80	GREENVILLE	NC
	MT AIRY/FSH PK	NC
	MEMPHIS	TN
	LICK KNOB	WV
	MORGANTOWN	WV
9.825/4.825	WATERTON	TN
	STAUNTON	VA
9.85 /4.85	CHARLOTTE	NC
	PETERSBURG	VA
9.875/4.875	MT PISGAH	NC
	NASHVILLE	TN
9.90 /4.90	ASHVL/MT PISGAH	NC
	FAYETTEVILLE	NC
	WILSON	NC
9.925/4.925	ATLANTA	GA
	ANDERSON/SAS MT	SC
9.95 /4.95	STAUNTON	VA
	VIRGINIA BEACH	VA
9.974/4.974	BRUNSWICK	GA
9.975/4.975	HIGH LEVEL	AL
	ATLANTA	GA
	SAURATOWN MT	NC
	NASHVILLE	TN
6.65 /6.65	ROANOKE	VA
2.65 /7.65	MONTGOMERY	AL
2.925/7.925	PRATTVILLE	AL
3.80 /8.80	SUMMERVILLE	SC
4.225/9.225	MANASSAS	VA
4.40 /9.40	MEMPHIS	TN
4.45 /9.45	ATLANTA	GA
4.50 /9.50	ALBANY	GA
4.825/9.825	ATLANTA	GA
4.90 /9.90	MACON	GA
	WOODBRIDGE	VA
4.925/9.925	WINCH/BLUEMONT	VA
2.01 /ACON	FISHERVILLE	TN
8.00 /0.00	LEXINGTON	NC
9.00 /1.00	LEXINGTON	NC

10 METERS

9.60 /9.60	CHARLOTTESVILLE	VA
9.52 /9.62	ATLANTA	GA
	NE ATLANTA	GA
	WILKESBORO	NC
	KNXVL/ENG MT	TN
	MEMPHIS/FRAYSER	TN
9.54 /9.64	JACKSONVILLE(FL)	GA
	CHAPEL HILL	NC
9.56 /9.66	TUSCALOOSA	AL
	MARIETTA	GA
	EDEN	NC
	SAPPHIRE	NC
9.58 /9.68	ALBANY	GA
	STERLING	VA

6 METERS

3.05 /2.05	ATLANTA/SWEAT MT	GA
3.44 /2.44	MARIETTA	GA

2.58 /2.48	FAIRFAX	VA
2.525/2.525	HENDERSONVILLE	NC
	HIGH POINT	NC
	CHARLOTTESVILLE	VA
2.76 /2.525	KNOXVILLE	TN
2.64 /2.84	FAIRFAX STA	VA
2.01 /3.01	HAYDEN	AL
	HENDERSONVILLE	NC
	NEWPORT	NC
	CHATTANOOGA	TN
	MEMPHIS	TN
	ABINGTON	VA
	LEXNGTN/COLE MT	VA
	NORTN/HIGH KB	VA
2.03 /3.03	FT PAYNE/LKT MT	AL
	ROANOKE RAPIDS	NC
2.05 /3.05	COPE	SC
	BOLT/BOLT MT	WV
2.07 /3.07	LINEVILLE	AL
2.13 /3.13	PERRY	GA
	ALEXANDRIA	VA
	DANVILLE(DCC)	VA
2.15 /3.15	BESSEMER	AL
	COLUMBIA	SC
	KNXVL/ENG MT	TN
	BEDFORD/THAX MT	VA
2.17 /3.17	ST MARYS/BENS R	WV
2.25 /3.25	RIDGEWAY	VA
	ROANOKE	VA
2.33 /3.33	SAPPHIRE	NC
2.35 /3.35	CARY	NC
	KNOXVILLE	TN
2.41 /3.41	PICKENS	SC
2.43 /3.43	RICHMOND	VA
2.45 /3.45	FLAT GAP	EK
	GALLATIN	TN
2.47 /3.47	HICKORY	NC
2.55 /3.55	CONYERS	GA
2.03 /3.63	ST ALBANS/COAL	WV
2.64 /3.64	KNOXVILLE	TN
2.06 /3.66	DANVILLE/MADSN	WV
2.67 /3.67	STATESVILLE	NC
2.09 /3.69	HERNSHAW/BEE MT	WV
2.12 /3.72	RAND	WV

EAST KENTUCKY REPEATERS

2 METERS

ASHLAND	KK4Y	146.34	146.94	*	
ASHLAND	KA4DII	147.84	147.24	N	ALR
ASHLAND	WA8KWH	147.93	147.33		A
ELKHORN CITY	WB4WAU	147.60	147.00	*	PA
GRAYSON	KF4JO	146.10	146.70	N	
HARLAN	WM4R	144.75	145.35	N	
HAZARD	K4VHF	146.07	146.67	*	
JENKINS	WD4PDJ	147.99	147.39	N	
LEXINGTON	KC4TX	144.85	145.45	N	A
LOUISA	WA4SWF	146.13	146.73	*	EA
LYNCH/BLACK MT	N4IZD	147.945	147.345	N	
MIDDLESBORO	W4PPM	144.63	145.23	N	
MOREHEAD	K4GFY	146.31	146.91	*	
MT. STERLING	WD4KNE	147.745	147.145	N	
PAINTSVILLE	WB4WFW	147.69	147.09		A
PIKEVILLE	N4IWZ	144.55	145.15	*	
PIKEVILLE	WB4GEL	146.19	146.79	*	PA
PIKEVILLE	N4IXA	146.25	146.85	*	EAL
PIKEVILLE	WB4GEL	147.87	147.27	*	PA
PINEVILLE	WA4YZY	146.04	146.64	N	
PRESTONSBURG	K4ICN	144.69	145.29	*	LRB
PRESTONSBURG	WB4KUC	146.28	146.88		
WINCHESTER	WB4ASZ	147.72	147.12		EA

220 MHZ

ASHLAND	KC4QK	222.34	223.94	N	
LOUISA	K4PGA	222.12	223.72		EA
PIKEVILLE	WB4F	222.98	224.58	*	
PIKEVILLE	N4MWI	223.02	224.62		A

440 MHZ

LYNCH/BLACK MT	N4IZD	448.10	443.10	N	

6 METERS

FLAT GAP	N4MPM	52.45	53.45	*	C

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CVRA-SERA REPEATER INDEX LISTINGS BY CITY-BY-STATE

NORTH CAROLINA REPEATERS

2 METERS

AHOSKIE	WB4YNF	144.53	145.13	N	A
AHOSKIE	WA4ZGQ	146.31	146.91	N	PA
ALBEMARLE	K4OGB	146.385	146.985	N	
ASHEBORO	KJ4AV	147.855	147.255	*	PAL
ASHEVILLE	WA4QCO	146.235	146.835	*	A
ASHVL/MT PISGAH	WA4BVW	146.16	146.76	*	
ASHVL/SPIVEY MT	W4MOE	146.31	146.91		A
BENSON	AK4H	147.87	147.27	*	PA
BOONE/RICH MTN	WA4KDB	147.96	147.36	*	
BREVARD/RICH MTN	WB4CJS	147.735	147.135		A
BURGAW	W4DLH	146.34	146.94	*	EA
BURLINGTON	WB4ZIN	146.07	146.67	N	A
BURLINGTON	W4VGZ	146.475	147.075	N	EA
BURLINGTON	WA4HBQ	147.675	147.075	N	EA
BURNSVILLE	N4YN	147.975	147.375	N	A
CARTHAGE	W4NIW	147.84	147.24	*	
CHARLOTTE	W4BFB	144.63	145.23		
CHARLOTTE	W4BFB	144.69	145.29		A
CHARLOTTE	WA4AOS	144.75	145.35	N	
CHARLOTTE	W4BFB	146.34	146.94		A
CHARLOTTE	W4CQ	146.46	147.06	N	A
CHARLOTTE	WD4PLY	147.99	147.39	N	PA
CHARLOTTE/RTTY	W4BFB	146.175	146.775		R
CHERRY MT	W4TMT	146.07	146.67	N	
CLINTON	WA4LZD	146.19	146.79	N	
COLUMBIA	K4ITL	144.51	145.11	N	CL
CONCORD/KANNAP.	K4CEB	146.055	146.655		PA
CROWDERS MT	WD4PLY	144.85	145.45	N	
DUNN	N4CID	146.10	146.70	*	PA
DURHAM	WA4WTX	144.85	145.45	*	AL
DURHAM	WA4BFT	146.34	146.94	N	A
EDEN/MAYODAN	WA4ACP	147.84	147.24	N	
EDEN/STONEVILLE	WA4QBG	147.99	147.39	*	
ELIZABETH CITY	WA4VTX	146.055	146.655	N	A
ELIZABETHTOWN	N4DHW	146.175	146.775	N	
FAYETTEVILLE	N4EWG	146.205	146.805	*	
FAYETTEVILLE	WB4YZF	146.31	146.91	*	A
FAYETTEVILLE	WA4FLR	146.445	147.045	*	CR
FAYVLLE/FT BRAGG	W4LPL	147.93	147.33	*	
FOREST CITY	WA4BKU	147.84	147.24	N	
FRANKLIN	W4ZCZ	144.89	145.49	*	
FRANKLIN	W4GHZ	147.84	147.24	*	
GAST/SPCR MT	W4REW	147.72	147.12	*	A
GASTONIA	K4NOQ	146.205	146.805	*	PA
GLENDALE SPGS	W4YJG	147.90	147.30	N	
GOLD HILL/GBO	N4AZM	144.65	145.25	*	A
GOLDSBORO	K4CYP	146.25	146.85	*	A
GREENSBORO	K4SNI	146.01	146.61	*	A
GREENSBORO	WA4MSS	146.16	146.76	*	
GREENSBORO	KB4IZ	147.63	147.03	*	PA
GREENSBORO	W4BUZ	147.81	147.21	N	
GREENVILLE	WA4DAN	144.75	145.35	*	L
GREENVILLE	K4ROK	147.975	147.375	N	
GREENVL/ESTN NC	W4GDF	147.69	147.09	*	
GRIFTON	W4NBR	146.085	146.685	N	
HALIFAX	AA4SJ	146.07	146.67		A
HENDERSONVILLE	WB4YAO	146.04	146.64	N	L
HENDSVL/BERWLW M	WA4KNI	144.67	145.27	*	A
HENDSVL/PINCK MT	WA4KNI	147.855	147.255	*	A
HICKORY/BRT. MT	WA4MDW	146.25	146.85	N	
HIGH POINT	N4XO	144.81	145.41	N	A
HIGH POINT	N4LXW	146.40	147.00	*	LA
HIGH POINT	KB4BPV	147.435	146.835	*	A
HIGH POINT	N4LXW	147.60	147.00	*	LA
HIGH POINT	KJ4RT	147.765	147.165		PA
HILLSBOROUGH	WA4WTX	147.825	147.225	*	AL
HOPE MILLS	WB4TRW	146.445	147.045	N	
JACKSONVILLE	WD4FVO	146.40	147.00	*	PA
JACKSONVILLE	WR4ATW	147.90	147.30	N	
KINSTON	N4HAJ	144.87	145.47	N	P
LAURINBURG	K4QWK	146.025	146.625	N	A
LENOIR/HIBRITN	KN4K	147.93	147.33	*	
LEWISVILLE	N4GGK	144.61	145.21	*	PA
LEXINGTON	K4IZM	146.31	146.91	*	PA
LILLINGTON	WA4FKI	144.87	145.47	N	
LK NORMN/CLT	WB4KPF	147.615	147.015		
LUMBERTON	W4NHV	147.90	147.30	*	EA
LUMBERTON	WB4MDI	147.96	147.36	*	
MACO	WA4LED	147.66	147.06		
MADISON	KA4YFF	146.295	146.895		
MAGGIE VALLEY	W4HCY	147.405	146.805	*	
MANTEO	K4JOR	146.34	146.94	N	O
MARION/BEAR WLW	KA4DEC	147.705	147.105	N	
MAYODAN	WA4ACP	147.72	147.12	N	
MILLERS CREEK	N4GGN	146.115	146.715	*	A
MONROE	KF4NJ	144.79	145.39	*	A
MONROE/UCARS	K4JCK	147.705	147.105	*	A
MORENTN/HI PK	WB4UDS	144.55	145.15	N	
MORGANTON	K4VLY	147.75	147.15	*	
MT AIRY	WA4ZAS	146.37	146.97	N	EA
MT AIRY-RTTY	WA4ZAS	146.34	146.94	N	R
MT AIRY/TRNR MT	KD4J	144.73	145.33	N	A
MT MITCHELL	WA4BVW	144.59	145.19	*	
MURPHY	KC4WB	147.795	147.195	N	
N. WILKESBORO	N4AGN	144.77	145.37	*	LP
NAGS HEAD/BODIE	N4JXG	146.235	146.835	*	PA
NEW BERN	WD4JMS	146.01	146.61	*	A
NEWPORT	K4GRW	144.85	145.45	N	AL
NEWTON	WD4JWO	144.57	145.17	N	
OLD FORT	KA4ROZ	146.385	146.985	N	
OXFORD	N4EKK	144.57	145.17	*	PA
RALEIGH	N4BEA	144.67	145.27	*	PAI
RALEIGH	NW4B	144.79	145.39	N	C
RALEIGH	N4CBI	144.89	145.49	N	
RALEIGH	W4DW	146.04	146.64	N	
RALEIGH	K4BWC	146.13	146.73	*	A
RALEIGH	K4ITL	146.28	146.88	*	L
RALEIGH	K4ITL	147.75	147.15	*	PA
REIDSVILLE	K4YFT	146.25	146.85	*	
ROANOKE RAPIDS	K4ITL	144.71	145.31	N	CL
ROANOKE RAPIDS	WA4DTS	147.63	147.03	*	
ROARING GAP	WB4PZA	146.22	146.82	*	
ROB/JOANNA BLD	WD4CNS	146.445	147.045		
ROCKINGHAM	WA4ULA	146.355	146.955	N	
ROCKY MOUNT	K4EWL	147.72	147.12	*	PA
SALISBURY	W4EXU	146.13	146.73	*	PA
SANFORD	WB4EJJ	147.78	147.18	*	A
SAURATOWN MT	W4RXG	144.51	145.11	*	R
SAURATOWN MT	N4LXW	146.19	146.79	*	PA
SAUROTOWN MT	WA4GIC	144.87	145.47		
SHALLOTTE	K4PPD	144.69	145.29	*	
SHELBY	W4NYR	146.28	146.88		
SHELBY	W4NYR	147.945	147.345		PA
SMITHFIELD	KD4JQ	146.37	146.97	N	
SMITHFIELD	W4MKL	147.99	147.39	N	
SPARTA/GREEN MT	K4ITL	144.83	145.43	*	L
SPRING LAKE	WB4KDC	146.115	146.715	N	
STATESVILLE	AI4O	146.085	146.685	*	
STATSVL/ASBRY MT	WA4JRL	147.645	147.045	N	
SWANSBORO	KO4S	146.16	146.76	*	
TRENTON	K4ITL	144.61	145.21	*	L
TUCKASEGEE	W8OMV	147.90	147.30	N	
UNION CROSS	WA4RBW	147.915	147.315		
WADESBORO	WA4IAT	146.235	146.835		

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.		T	Tone Access Repeater
★	Honor Roll Full Member	L	Linked Repeater
D	Deliquent Membership	K	Packet Operation
N	NON Member SERA	R	Radioteletype Oper.
NB	Not on SERA Band Plan	V	Television (SS or ATV)
M	T-MARC Terr. Rptr.	P	Proposed Repeater
A	Autopatch (Open)	C	Under Construction
PA	Private Autopatch	O	Off Air Temporarily
EA	Emerg. Autopatch	RB	Remote Base System

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MORE NORTH CAROLINA REPEATERS

2 METERS

WASHINGTON	WA4TEP	147.945	147.345	*	
WAXHAW	WB4OOA	146.295	146.895	N	PA
WAXHAW	WA4ZRS	147.465	146.865	*	A
WAYNESVILLE	N4SM	147.87	147.27	*	PA
WHITEVILLE	K4MSD	147.81	147.21		
WILLIAMSTON	KA4KNU	144.81	145.41	*	PA
WILMINGTON	W4VNK	146.13	146.73	*	PA
WILMINGTON	K4GMP	146.22	146.82	*	L
WILMINGTON	N4CJS	147.78	147.18	N	A
WILSON	WB4THL	146.16	146.76	N	
WINSTON-SALEM	WA4GIC	146.04	146.64		
YOUNGSVILLE	WD4AUI	146.445	147.045	N	

220 MHZ

ASHEVILLE	NC4N	223.00	224.60	*	
ASHVL/MT PISGAH	WA4BVW	222.34	223.94	*	
CHAPEL HILL	K2MZ	223.32	224.92	N	C
CHARLT/MINT HL	KE4ZC	222.80	224.40		
CHERRYVILLE	WB4UDS	223.36	224.96	N	
FAYETTEVILLE	W4EHF	222.42	224.02	*	
GREENSBORO	WB4IKY	223.22	224.82	*	R
HENDSVL/BERWLW M	WA4KNI	222.64	224.24	*	
HICKORY	WA4MDW	222.42	224.02	N	
HIGH POINT	K4AZA	222.32	223.92	*	LA
HILLSBOROUGH	WA4WTX	222.34	223.94	*	L
LENOIR/HIBRITN	KN4K	222.56	224.16	*	
LINWOOD	KA4HUV	222.38	223.98	N	
LK NORMN/CLT	WB4KPF	223.08	224.68	N	
LOCUST	WA4ZIA	222.40	224.00	*	PA
LUMBERTON	WB4WOR	222.54	224.14	*	
MARSHALL	KA4YTO	222.76	224.36	N	
MOORESBORO	N4JIF	222.60	224.20	N	C
MORGANTON	WB4PML	223.20	224.80	*	
MT MITCHELL	WA4BVW	222.94	224.54	*	
MT. TOXAWAY	K4MSK	223.12	224.72		
N. WILKESBORO	N4JFM	222.88	224.48	N	C
RALEIGH	WA4PEN	223.04	224.64	N	
ROCKY MOUNT	NF4C	222.36	223.96	*	
SALISBURY	W4EXU	223.16	224.76	*	
SAURATOWN MT	W4RXG	223.10	224.70	*	R
SAURATOWN MT	W4RXG	223.28	224.88	*	
STATESVILLE	WA4PVI	222.70	224.30	N	
WINSTON-SALEM	WA4YHH	223.04	224.64	N	

440 MHZ

AHOSKIE	WB4YNF	449.20	444.20	N	C
ASHVL/MT PISGAH	WA4COS	449.90	444.90	N	
CHAPEL HILL	K2MZ	448.875	443.875	N	C
CHARLOTTE	W4BFB	449.60	444.60		
CHARLOTTE	W4CQ'	449.85	444.85	N	
DURHAM	WA4WTX	449.10	444.10	*	AL
EDEN	WA4ACP	447.10	442.10	N	
FAYETTEVILLE	KB4ZW	449.40	444.40	N	
FAYETTEVILLE	KB4ZW	449.90	444.90	N	P
GREENSBORO	N4AZM	448.50	443.50	*	
GREENVILLE	AI4J	449.80	444.80	N	
HENDSVL/BERWLW M	WA4KNI	449.25	444.25	*	
HICKORY	K4JEQ	449.00	444.00		
HIGH POINT	K4AZA	447.90	442.90	*	L
HIGH POINT	N4LXW	448.70	443.70	N	
LEWISVILLE	N4GGK	439.25	426.25	*	V
LEXINGTON	W4HTG	449.50	444.50	N	C
LOCUST	WA4LBT	448.70	443.70	N	
MORGANTON	WB4PML	447.05	442.05	N	C
MT AIRY/FSH PK	KF4UY	449.80	444.80	*	
MT MITCHELL	WA4BVW	434.25	421.25	*	V
MT MITCHELL	N4DWU	448.60	443.60	*	
MT PISGAH	WA4COS	449.875	444.875	N	C
N. WILKESBORO	N4GGN	448.35	444.35	N	C
NEWTON	WD4JWO	449.30	444.30	N	C
RALEIGH	N4BEA	447.15	442.15	*	L
ROCKY MOUNT	N4JEH	449.70	444.70	*	
SALISBURY	W4EXU	449.65	444.65	*	
SAURATOWN MT	N4GGK	439.25	421.25	N	
SAURATOWN MT	K4AZA	448.10	443.10	*	
SAURATOWN MT	WA4GIC	449.975	444.975	N	C
SHELBY	W4NYR	439.25	427.25		VPA
WILKESBORO	KC4XE	448.55	443.55	*	
WILLIAMSTON	KA4KNU	449.65	444.65	N	
WILMINGTON	KB4BR	449.70	444.70		
WILSON	NE4J	449.90	444.90	*	

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920 MHZ

LEXINGTON	W4PAR	908.00	920.00	*	P
LEXINGTON	W4PAR	909.00	921.00	*	P

10 METERS

CHAPEL HILL	K2MZ	29.54	29.64	N	C
EDEN	WA4ACP	29.56	29.66	N	
SAPPHIRE	W4EHV	29.56	29.66	N	C
WILKESBORO	KC4XE	29.52	29.62	*	L

6 METERS

CARY	WR4AVP	52.35	53.35	N	
HENDERSONVILLE	WB4YAO	52.01	53.01	N	
HENDERSONVILLE	WB4YAO	52.525	52.525	N	RB
HICKORY	WA4MDW	52.47	53.47	N	
HIGH POINT	K4AZA	52.525	52.525	*	RB
NEWPORT	K4GRW	52.01	53.01	N	P
ROANOKE RAPIDS	WA4DTS	52.03	53.03	*	
SAPPHIRE	W4EHV	52.33	53.33	N	C
STATESVILLE	WA4WRS	52.67	53.67	N	

PACKET

CHARLOTTE	W4BFB-1	145.01	PKET		K
COLFAX	KE4TH-1	145.07	PKET	N	K
CONCORD	K4CEB-1	145.01	PKET	N	K
GOLDSBORO	K4CYP-1	145.01	PKET	N	K
RALEIGH	K4BWC-1	145.01	PKET	*	K
SAURATOWN MT	W4RXG-1	145.01	PKET	*	K
SPIVEY MTN	KB4OKW-1	145.01	PKET	*	K

SOUTH CAROLINA REPEATERS

2 METERS

AIKEN	N4ADM	147.885	147.285	*	
ANDERSON	N4SZ	146.37	146.97	*	PA
ANDERSON/SAS MT	W4FVV	146.19	146.79	*	
BAMBERG	WA4DFP	144.73	145.33	N	
BARNWELL	WA4FOF	147.63	147.03	*	
CHARLESTON	WB4JRP	144.65	145.25	N	
CHARLESTON	K4ILT	146.16	146.76	N	PA
CHARLESTON	W4IVE	146.19	146.79	N	
CHARLESTON	W4IVE	146.34	146.94	N	P
CHARLESTON	WB4LET	147.87	147.27	*	PA
CHARLESTON	K4LWS	147.90	147.30	N	A
CHELSEA	KB4GY	146.01	146.61	N	
CHERAW	KA4ABW	147.735	147.135	N	PA
CHESTER	KB4FJX	146.025	146.625	N	P
COLUMBIA	KC4LB	144.83	145.43	*	PA
COLUMBIA	K4AVU	146.28	146.88	N	
COLUMBIA	WA4KIO	147.93	147.33		
DILLON/PEE DEE	NN4N	146.145	146.745	*	EA
FLORENCE	W4ULH	146.25	146.85	N	A
FLORENCE	WA4ISM	146.37	146.97	*	PA
FT JACKSON	WB4OCB	146.16	146.76	N	
FT MILL/CAROWND	AA4SC	147.78	147.18		
GASTON	WB4NEP	144.61	145.21	N	PA
GEORGETOWN	WD4DMI	147.975	147.375	N	
GOOSE CREEK	WD4NUN	147.675	147.075	N	A

MORE SOUTH CAROLINA REPEATERS

2 METERS

GOOSE CREEK	W4NAT	147.78	147.18	N	
GREENVILLE	W4IQQ	146.34	146.94	N	
GREENVILLE	K4LEO	147.375	147.975	*	NBT
GREENWOOD	KB4YF	147.765	147.165	*	A
GREENWOOD/HODGES	KB4CS	144.53	145.13	N	
GREENWOOD/HODGES	KB4YF	146.265	146.865	*	
GRNVLE/CSRS HD	W4NYK	146.01	146.61	*	
GRNVLE/PARIS MT	W4NYK	146.22	146.82	*	PA
INMAN	WD8OXE	144.87	145.47		
LAKE MARION	W4DTW	147.825	147.225		P
LANCASTER	W4PAX	146.10	146.70	*	
LANCASTER	WB4BGF	147.84	147.24	N	
LAURENS	KA4LBI	146.25	146.85	N	A
LEXINGTON	KA4FEC	147.99	147.39	*	
LITTLE MT.	K4AVU	147.81	147.21	N	
MARION	W4YLT	146.40	147.00	N	EA
MONCKS CORNER	KA4BJM	147.75	147.15	N	
MT PLEASANT	K4ESG	146.07	146.67	N	
MYRTLE BEACH	KI4CB	144.51	145.11	N	P
MYRTLE BEACH	K4IQM	146.01	146.61	N	PA
MYRTLE BEACH	WA4YGE	147.72	147.12	N	
MYRTLE BEACH, N	WA4JYR	147.63	147.03	N	PA
N. AUGUSTA	K4FKJ	146.13	146.73	*	
NEWBERRY	KB4CO	146.085	146.685	*	
ORANGEBURG	WR4AQY	147.69	147.09	N	A
PICKENS	WB4YXZ	146.40	147.00	*	
RKY RDG/WALLACE	KA4ABW	144.89	145.49		
ROCK HILL	KA4RFA	144.71	145.31	N	LPA
ROCK HILL	N4CWZ	146.325	146.925		PA
ROCK HILL	K4YTZ	146.43	147.03		PA
ROCKY SPUR	KS4I	147.885	147.285	N	
SENECA/LONG MT	WA4JRJ	147.87	147.27	N	
SIMPSONVILLE	WA4LDP	146.13	146.73	*	
SIMPSONVILLE	WA4SDT	147.75	147.15	N	R
SPARTANBURG	WD8OXE	147.69	147.09	N	PA
SUMMERVILLE	K7ZGW	147.96	147.36	N	EAP
SUMTER	WS4P	146.04	146.64	*	
SUMTER	WA4UMU	147.615	147.015	*	EA
SUMTER	W4VFR	147.66	147.06	*	A
WHITE HALL	W4BWZ	146.31	146.91	N	

220 MHZ

COLUMBIA	N4EOY	223.30	224.90	*	RB
EASLEY/SASFRS MT	AJ4N	222.46	224.06		
GREER	W4ILY	222.38	223.98	N	PA
LITTLE MT	KA4FEC	222.52	224.12	*	
PICKENS/CSRS HD	WB4QHF	222.54	224.14	*	PA

440 MHZ

ANDERSON/SAS MT	WD4BUH	449.925	444.925		
CAESARS HEAD	WB4LZQ	448.875	443.875	N	
COLUMBIA	KC4YI	449.10	444.10	*	
GREENVILLE	WB4HKZ	448.10	443.10	N	C
LEXINGTON	N4GUP	439.25	421.25	*	V
MT PLEASANT	N4DRU	449.70	444.70	N	
PICKENS/CSRS HD	WA6WAY	447.00	442.00	*	
ROCK HILL	KA4RFA	449.75	444.75	N	LPA
SUMMERVILLE	WA4HNK	443.80	448.80	N	NB
SUMTER	WA4UMU	439.25	427.25	N	V

6 METERS

COLUMBIA	N4GQH	52.15	53.15	N
COPE	N4HSN	52.05	53.05	N
PICKENS	WB4YXY	52.41	53.41	*

PACKET

ANDERSON	W4FX-1	145.01	PKET	*	K
COLUMBIA	N4EOY-1	145.01	PKET	*	K
FLORENCE	W4ULH-1	145.01	PKET	N	K
SUMTER	WS4P-1	145.01	PKET	*	K

This Repeater Index
Is Correct As Of
April 20, 1986

VIRGINIA REPEATERS

2 METERS

ACCOMAC	WA4TVS	147.855	147.255		PA
ALEXANDRIA	N4FSC	144.71	145.31	M	PA
ALEXANDRIA	WD4PDP	146.055	146.655	M	PA
ALEXANDRIA	W4HFH	147.915	147.315	M	L
ALTAVISTA	WA4ISI	146.055	146.655	*	A
ARLINGTON	N4EFJ	144.87	145.47	M	
ARLINGTON	WA4YVM	146.445	147.045	M	T
BARREN SPRINGS	K4HZS	146.07	146.67	*	
BEDFD/APL ORCH	WB4DBB	144.63	145.23	*	
BEDFORD	WB4JBJ	147.705	147.105	*	LRPA
BLACKSBURG	AB9I	146.115	146.715	*	
BLAND	N4AZJ	144.75	145.35	N	L
BLUEFIELD	W8MOP	144.89	145.49	*	
BLUFLD/ER MT	KD8MZ	146.025	146.625	*	
BRISTOL	WDECYZ	146.28	146.88	N	
BROMLEY MT	WR4ATJ	146.01	146.61	N	
CHARLOTTESVILLE	WA4TFZ	146.16	146.76	*	
CHARLOTTESVILLE	WA4TFZ	146.325	146.925	*	
CHESAPEAKE	K4NDH	144.69	145.29	N	EA
CHESAPEAKE	N4GSP	146.01	146.61	N	A
CHESAPEAKE	N4SD	146.19	146.79		A
CHESTERFIELD	KA4CBB	147.96	147.36	*	
CHESTERFLD CO	WA4ECM	147.66	147.06	*	A
COVINGTON	WA4HTI	146.205	146.805	N	
CULPEPPER	N4FAF	147.72	147.12	M	
DANVILLE	K4YZR	147.95	147.35	N	NB
DANVILLE(DCC)	WB4GJG	146.325	146.925	*	
DANVILLE/WHT OAK	K4WQS	146.10	146.70	N	
DUFFLD/POWLL MT	KA4BHH	146.10	146.70	*	
FAIRFAX	W4LBL	146.19	146.79	M	PA
FALLS CHURCH	W4AQD	144.75	145.35	M	T
FARMVILLE	WB4NWP	146.31	146.91	N	A
FINCASTLE	W4WIC	146.04	146.64	*	
FRANKLIN	K4SPS	147.90	147.30	N	PA
FREDRICKSBURG	WB4LNT	147.615	147.015	*	
GALAX	WA4ZIV	144.79	145.39	N	
GALAX/BRIRP MT	N4VL	147.69	147.09	*	A
GALAX/FRIES	WA4DFH	147.735	147.135	*	A
GALAX/LKOUT MT	N4VL	144.53	145.13	*	EA
GATE CITY	WD4GTA	147.945	147.345	N	
GLOUCESTER	KA2IMI	144.77	145.37		
GRUNDY	K4HWQ	147.92	147.32	N	ANE
GUM SPRING	KB4GX	147.87	147.27	*	
HAMPTON	K4DHO	146.13	146.73		PA
HAMPTON	K4UMI	146.34	146.94	N	T
HAZEL MT	WD4CYZ	146.235	146.835	N	
HILLSVILLE	WD4BTJ	147.975	147.375	N	A
JONESVILLE	WA4OVC	146.31	146.91	*	
KILMARNOCK	W2MS	144.61	145.21	N	C
LEXINGTON	KI4ZR	146.07	146.67	*	A
LEXINGTON	KI4ZR	147.90	147.30	*	C
LEXNGTN/COLE MT	K4PQD	147.93	147.33	N	
LYNCHBURG	W4WWQ	146.01	146.61	N	
LYNCHBURG	K4STE	146.16	146.76	*	A
LYNCHBURG	AB4M	147.43	144.93	N	NB
LYNCHBURG	WA4RTS	147.795	147.195	N	
LYNCHBURG	W4OSH	147.975	147.375	N	PA
MADISON	N4AJO	147.99	147.39	M	
MANASSAS	WD4JCE	144.67	145.27	M	R
MANASSAS	WA4FPM	146.37	146.97	*	PA
MARION	N4BIW	146.04	146.64	*	
MARTINSVILLE	AB4L	147.885	147.285	*	
MCLEAN	WD4IWG	147.81	147.21	M	R
MT. LK/BALD KNB	K4TUE	146.31	146.91	N	
NARROWS/DISML PK	N4AZJ	147.825	147.225	N	
NEW MARKET	WB4DAK	146.025	146.625	*	
NEWPORT NEWS	WB4CTF	147.765	147.165		PA
NEWPORT NEWS	WA4OHX	147.975	147.375	N	PA
NORFOLK	NE4D	146.10	146.70	N	
ONEIDIA PEAK	KD8MZ	146.325	146.925	*	
PETERSBURG	N4KAF	147.78	147.18	N	
PETERSBURG	K4ARO	147.84	147.24	*	TP
PETERSBURG	K4ARO	147.99	147.39	*	
PKS KB/PULASKI	KT4Z	147.78	147.18	*	PA
PORTSMOUTH	N4PR	146.25	146.85	N	
RADFORD	KC4WA	147.645	147.045	*	
RICHMOND	K4YPE	144.51	145.11	*	A

MORE VIRGINIA REPEATERS

RICHMOND	W4SQT	144.83	145.43	*	PA
RICHMOND	WB4QEY	146.04	146.64	*	PA
RICHMOND	WA4ZBE	146.28	146.88	*	EA
RICHMOND	W4ZA	146.34	146.94	*	
RICHMOND	WA4JST	146.43	147.03	N	
RICHMOND	N4HB	147.735	147.135	*	
ROANOKE	WB4QET	146.34	146.94	N	A
ROANOKE/POOR MT	WB4QOJ	146.145	146.745	N	LPA
ROANOKE/POOR MT	W4CA	146.385	146.985	*	
SALEM	W4PDL	146.28	146.88	N	
SOUTH BOSTON	WD4LBM	146.46	147.06	*	
STAUNTON	W4XD	146.10	146.70	*	
STAUNTON	WA4ZBP	146.25	146.85	*	
STAUNTON	W4WRN	146.37	146.97	N	EA
STAUNTON/EL. KB	W4WRN	147.645	147.045	N	
STERLING	WA4TXE	146.115	146.715	M	
SUFFOLK	WA4HMT	146.40	147.00	N	PA
TAZEWELL	WD4DZE	147.75	147.15	N	
TYSONS CORNER	WB4FMD	146.31	146.91	M	PA
VIENNA	K4HTA	146.085	146.685	M	
VIRGINIA BEACH	WA4KXV	146.37	146.97	*	PA
VIRGINIA BEACH	WA4SBC	147.645	147.045	N	
WARRENTON	WB4FJT	147.765	147.165	M	
WARSAW	KA4ZIP	147.93	147.33		
WAYNESBORO/FMS	W4BLD	147.63	147.03	*	
WAYNSBR/AFTON MT	W4PNT	147.675	147.075		L
WILLIAMSBURG	W4NTG	146.07	146.67		
WINCH/BLUEMONT	WA4TSC	147.90	147.30	N	
WINCHESTER	W4RKC	146.22	146.82	*	
WISE/HIGH KNOB	K4AXO	147.81	147.21	N	
WOODBRIDGE	WB4FQR	147.84	147.24	M	A
WYTHE/PULASKI	KC4VR	147.945	147.345		A
WYTHEVILLE	WA4EMS	146.175	146.775	*	
YORKTOWN	WD4SDC	147.825	147.225	N	

220 MHZ

ALEXANDRIA	WA4CCF	223.22	224.82	M	L
DAN/WHT OAK	K4OAK	223.16	224.76	N	
FAIRFAX	WB4YHD	222.50	224.10	M	L
FALLS CHURCH	N4CHP	223.38	224.98	M	PA
FRIES/PT LKOUT	WA4DFH	222.74	224.34	*	
PETERSBURG	K4ARO	222.40	224.00	*	
ROANOKE	WB4DBB	222.50	224.10	*	L
ROANOKE/POOR MTN	WB4DBB	223.34	224.94	*	
STERLING PK	WD4KHP	222.12	223.72	N	C
TYSONS CORNER	WD4KHP	223.12	224.72	N	PL

440 MHZ

ALEXANDRIA	WR4AAG	439.25	426.27	M	V
ALEXANDRIA	W4HFH	449.60	444.60	M	
ALTAVISTA	WA4ISI	449.425	444.425	*	L
BEDFD/APL ORCH	WB4DBB	449.35	444.35	*	L
CHARLOTTESVILLE	WA4TFZ	449.25	444.25	*	
CHESAPEAKE	N4EVG	448.90	443.90	*	A
COVINGTON	WA4HTI	447.25	442.25	N	
FALLS CHURCH	WB8CRK	449.45	444.45	M	L
FINCASTLE	W4WIC	448.75	443.75	*	
HAMPTON	K4UMI	448.65	443.65	N	
LEXNGTN/COLE MT	K4PQD	449.15	444.15	N	
LYNCHBURG	K4HEX	449.50	444.50	N	
MANASSAS	WD4JCE	444.225	449.225	M	L
MANASSAS	WB3EAQ	448.30	443.80	M	
NORFOLK	W4WIN	439.25	426.25	N	V
NORTHWEST/SE VA	KR4K	448.80	443.80	N	
PETERSBURG	K4ARO	449.85	444.85	*	
RICHMOND	N4HB	449.00	444.00	N	
RICHMOND	K4ARO	449.65	444.65	*	
ROANOKE	WB4DBB	446.65	446.65	*	RBL
ROANOKE	N4HON	447.70	442.70	*	
ROANOKE/POOR MT	W4CA	447.50	442.50	*	
SALUDA	WA4UAF	448.90	443.90	N	
SPRINGFIELD	AA4VA	449.15	444.15	M	
STAUNTON	WA4ZBP	449.825	444.825	*	
STAUNTON	W4WRN	449.95	444.95	N	
TYSONS CORNER	WB6GUS	448.50	443.50	M	
TYSONS CORNER	K4JYF	449.75	444.75	M	
VIRGINIA BEACH	WA4KXV	449.95	444.95	*	
WAYNESBORO	W4BLD	449.30	444.30	*	TPA
WAYNSBR/AFTON MT	W4BLD	449.05	444.05	*	
WILLIAMSBURG	W4NTG	448.95	443.95	M	
WINCH/BLUEMONT	WA4TSC	444.925	449.925	N	NB
WINCHESTER	W3CSG	447.00	442.00	M	
WOODBRIDGE	WB4FQR	444.90	449.90	M	

10 METERS

CHARLOTTESVILLE	WA4TFZ	29.60	29.60	*	RB
STERLING	KD4DN	29.58	29.68	M	P

6 METERS

ABINGTON	WR4ATJ	52.01	53.01	M	L
ALEXANDRIA	WA4CCF	52.13	53.13	M	L
BEDFORD/THAX MT	WB4DBB	52.15	53.15	*	
CHARLOTTESVILLE	WA4TFZ	52.525	52.525	*	RB
DANVILLE(DCC)	WB4GJG	52.13	53.13	*	
FAIRFAX	KA4DCS	52.58	52.48	M	NB
FAIRFAX STA	WD4KHP	52.64	52.84	N	NB
LEXNGTN/COLE MT	K4PQD	52.01	53.01	N	L
NORTN/HIGH KB	K4LSP	52.01	53.01	N	
RICHMOND	KA4NNN	52.43	53.43	N	N
RIDGEWAY	KE4FJ	52.25	53.25	N	
ROANOKE	WB4DBB	52.25	53.25	*	L

PACKET

CHARLOTTESVILLE	WA4TFZ-1	145.01	PKET	*	CK
GLEN ALLEN	K4ARO-1	145.01	PKET	*	K
HAMPTON	K4UMI-1	145.23	PKET	N	K
VIRGINIA BEACH	WA4KXV-1	145.01	PKET	*	K

TENNESSEE REPEATERS

2 METERS

ALAMO	WB4EDS	147.735	147.135	N	
ATHENS	WB4GRC	144.71	145.31	N	
BENTON	K4SIR	144.85	145.45	N	
BLOUNTVILLE	WA4KMG	147.60	147.00	N	
BRISTOL	K4ILW	146.07	146.67		A
BRISTOL	WD4CYZ	146.28	146.88	N	
BROWNSVILLE	WA4ABU	146.655	146.055	N	NB
CHATT/SIGNAL MT	AD4F	146.055	146.655	*	
CHATT/SIGNAL MT	WA4ZOK	147.60	147.00	N	PA
CHATTANOOGA	K4VCM	144.69	145.29	N	
CHATTANOOGA	KB4TZ	144.79	145.39	N	A
CHATTANOOGA	K4CMY	146.01	146.61	N	
CHATTANOOGA	W4DSK	146.19	146.79	N	A
CHATTANOOGA-RTTY	K4CMY	144.53	145.13	N	
CLARKSVILLE	WA4TEQ	147.60	147.00	N	
CLEVELAND	WD4DES	147.78	147.18	N	
COOKEVILLE	WA4UCE	146.07	146.67	N	A
COOKEVILLE	N4WS	147.81	147.21	N	PA
COVINGTON	WA4VXW	147.93	147.33	N	
CROSSVILLE	KE4RX	146.04	146.64	*	
CROSSVILLE	W4CV	147.93	147.33	N	
CUMBERLAND CTY	N4GMT	144.73	145.33	N	
DAYTON/RHEA CTY	K4ZLA	147.99	147.39	N	
DECATUR-PONE KB	W4RJC	144.55	145.15	*	
DONELSON	WA4BZU	147.885	147.255	N	TPA
DYERSBURG	AA4HF	146.145	146.745	N	
ELZ/JC/HLST MT	WB4SQC	144.69	145.29	N	A
FAYETTEVILLE	KO4G	146.265	146.865	N	
FAYETTEVILLE	W4NIQ	147.63	147.03	N	
FISHERVILLE	N4DRL	144.65	145.25	*	A

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.		T	Tone Access Repeater
★	Honor Roll Full Member	L	Linked Repeater
D	Deliquent Membership	K	Packet Operation
N	NON Member SERA	R	Radioteletype Oper.
NB	Not on SERA Band Plan	V	Television (SS or ATV)
M	T-MARC Terr. Rptr.	P	Proposed Repeater
A	Autopatch (Open)	C	Under Construction
PA	Private Autopatch	O	Off Air Temporarily
EA	Emerg. Autopatch	RB	Remote Base System

Note some repeaters allow voice as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for info.

MORE TENNESSEE REPEATERS

2 METERS

FRANKLIN	WB4HCK	144.55	145.15	N	RB
FRAYSER	W4UFT	146.10	146.70	N	
GALLATIN	W4NIT	147.84	147.24	N	PA
GALLATIN	WA4YQC	147.87	147.27	N	PA
GALLATIN	WB4DLQ	147.99	147.39	N	T
GREENEVILLE	WS4X	144.79	145.39	*	
GREENEVILLE	WB4TUO	144.81	145.41	*	
GRNVLE/GRYSTN	WA4LYF	147.66	147.06	*	A
GTLBG/COVE MTN	WA4KJH	146.25	146.85	N	LEA
HENDERSONVILLE	WB4WZK	144.67	145.27	*	
HENDERSONVILLE	WD4FFM	147.945	147.345	N	
HERMITAGE	WB4DOR	144.79	145.39	*	
HUMBOLDT	NQ4Y	144.75	145.35	*	
JACKSON	KF4SC	144.71	145.31	N	
JACKSON	W4WKZ	147.81	147.21	N	
JASPER	KD4XX	144.59	145.19	N	
JOHNSON CITY	WB4EHK	146.19	146.79	N	
JOHNSON CITY	KE4FH	147.87	147.27	N	A
KNGSPT/BAYS MT	W4TRC	146.37	146.97		PA
KNOXVILLE	WB4JSD	144.51	145.11	*	R
KNOXVILLE	K4KFD	144.61	145.21	N	A
KNOXVILLE	WA4TEM	144.73	145.33	*	A
KNOXVILLE	WA4GZE	144.77	145.37		EA
KNOXVILLE	WB4GBI	144.83	145.43		
KNOXVILLE	WB4GBI	144.87	145.47		
KNOXVILLE	WB4GBI	146.34	146.94		
KNOXVILLE	K4HXD	147.675	147.075	N	A
KNOXVILLE	W4BBB	147.90	147.30	*	
KNXVL/CROSS MT	KA4OAK	147.96	147.36	*	
KNXVL/ENG MT	WB4IOB	146.13	146.73	*	
LAFOLLETTE	KA4OAK	144.53	145.13	*	A
LAFOLLETTE/WMT	K4BGW	146.07	146.67	*	
LAKE CITY	WB4OAH	146.22	146.82	N	
LEBANON	WB4DOR	144.59	145.19	*	
LEBANON	KE4VZ	146.13	146.73	N	PA
LENOIR CITY	KE4SK	144.57	145.17	N	
LEXINGTON	WB4LGH	146.43	147.03	N	
MANCHESTER	W4UOT	146.10	146.70		A
MARTIN	WA4ZQX	146.025	146.625	*	
MCMINNVILLE	WA4CPJ	146.37	146.97	*	A
MCMINVL/SHT MT	W4KKO	144.89	145.49	*	
MEDINA	K4BEZ	146.37	146.97	N	A
MEMPHIS	WA4VIP	144.81	145.41	N	
MEMPHIS	WA4KOG	144.89	145.49	N	
MEMPHIS	W4GYS	146.04	146.64	N	
MEMPHIS	WA4DAZ	146.13	146.73	N	
MEMPHIS	K4FZJ	146.19	147.51	N	NB
MEMPHIS	W4BS	146.22	146.82	N	
MEMPHIS	WA4KOG	146.25	146.85	N	A
MEMPHIS	WA4ETE	146.28	146.88	N	A
MEMPHIS	K4BN	146.34	146.94	N	A
MEMPHIS	K4FZJ	146.40	147.00	N	
MEMPHIS	WA4MQQ	146.46	147.06	N	
MEMPHIS	W4ZJM	147.63	147.03	N	L
MEMPHIS	WB4DAZ	147.72	147.12	N	AT
MEMPHIS	WA5KUB	147.75	147.15	N	
MEMPHIS	WA4KOG	147.78	147.18	N	
MEMPHIS	WD4APK	147.84	147.24	N	
MEMPHIS	WA4ADT	147.90	147.30	N	
MEMPHIS	WB4MMI	147.96	147.36	N	
MILLINGTON/NB	W4ODR	146.43	147.03	N	L
MORRISTOWN	WD4PRQ	147.63	147.03	N	EA
MORRISTOWN	WB4OAH	147.825	147.225	N	
MOUNTAIN CITY	WD4OMO	144.87	145.47	N	
MUFREESBORO	N4FUD	144.63	145.23	N	
MURFREESBORO	WB4LHO	144.57	145.17	N	PA
NASHVILLE	N4AJS	144.65	145.25	N	
NASHVILLE	WD4FFM	144.69	145.29	N	
NASHVILLE	WD4JYD	144.75	145.35	N	
NASHVILLE	N4ARK	144.87	145.47	N	
NASHVILLE	WA4PCD	146.01	146.61	N	PA
NASHVILLE	WB4NTM	146.04	146.64	N	EA
NASHVILLE	WA4PCD	146.16	146.76	N	
NASHVILLE	W4SQE	146.19	146.79		
NASHVILLE	WA4PCD	146.25	146.85	N	PA
NASHVILLE	WA4PCD	146.28	146.88	N	
NASHVILLE	WA4PCD	146.34	146.94	N	
NASHVILLE	AF4K	147.615	147.015	N	
NASHVILLE	WA4PCD	147.75	147.15	N	
NASHVILLE	WA4PCD	147.78	147.18	N	
NASHVILLE	WB4ZSA	147.90	147.30	*	
NASHVILLE	N4AJS	147.93	147.33	N	
NASHVILLE S.	WB4NTM	147.96	147.36	N	R
NASHVILLE S.W.	WB4NTM	146.07	146.67	N	EA
OAK RIDGE	W4SKH	146.28	146.88	N	
OAK RIDGE	W4SKH	146.37	146.97	N	A
OAK RIDGE	K4EAJ	147.72	147.12	*	L
OAK RIDGE	K4EAJ	147.75	147.15	*	R
PARIS	WA4CEX	147.765	147.165	N	
PARIS	K4KLX	147.96	147.36		A
PIKEVILLE	K4MJM	147.885	147.285	*	
PULASKI/MUS MT	W4JVO	146.175	146.775	N	
PURYEAR	WA4CEX	147.765	147.165	*	
SAVANNAH	WB4DQU	146.31	146.91	N	
SEV/SHIELDS MT	N4CJX	144.67	145.27		
SHELBYVILLE	W4QEB	147.66	147.06	*	A
SHORT MTN	W4YXA	146.31	146.91	N	
SPARTA/BON AIR	W4BSA	147.69	147.09	*	A
SPRING HILL	NW4E	144.85	145.45	N	A
STANTONVILLE	KA4OHC	144.79	145.39	N	
UNION CITY	WA4YGM	146.10	146.70	*	
UNION CITY	WA4YGM	147.015	147.615	*	ANB
WAVERLY	NO4Q	146.085	146.685	N	
WINCHESTER	WB4UEW	146.22	146.82		

220 MHZ

CHATT/SIGNAL MT	WA4ZOK	223.30	224.90	N	
CHATTANOOGA	K4VCM	223.18	224.78	N	A
CLARKSVILLE	KF4GP	222.34	223.94	N	
FRANKLIN	WD4SGS	222.54	224.14	N	
GALLATIN	WB4ZSA	222.38	223.98	*	
GREENEVILLE	WB4NKM	223.34	224.94	*	A
HERMITAGE	WB4RAB	222.30	223.90		
HICKORY VALLEY	KA5TAG	222.58	224.18	N	
KNOXVILLE	WA4YON	222.86	224.46	*	
KNOXVILLE	W4BBB	222.90	224.50	*	
KNOXVILLE	KB4CTS	223.22	224.82	N	C
MEMPHS/FRAYSER	W4ZJM	222.34	223.94	N	LO
NASHVILLE	N4TB	222.42	224.02	N	
NASHVILLE	WB4UEX	222.48	224.08	N	
NASHVILLE	N4AWB	222.62	224.22	N	

440 MHZ

ALAMO	WB4EDS	448.75	443.75	N	L
CHATT/SIGNAL MT	WA4ZOK	439.25	427.25	N	V
CHATTANOOGA	N4JSR	447.325	442.325	N	
CHATTANOOGA	WA4NFO	449.10	444.10	N	
ELIZ/HOLSTON MT	WB4BFS	449.75	444.75	N	
FAYETTEVILLE	KO4G	448.10	444.10	N	
FISHERVILLE	N4DRL	432.01	BEACON	*	O
FISHERVILLE	N4DDS	449.30	444.30	*	O
FRANKLIN	KA4IDB	448.85	443.85	N	
GALLATIN	WD4BKY	449.35	444.35	N	
GALLATIN	WD4KWP	449.45	444.45	*	
GATLBG/COVE MT	WA4KJH	448.30	443.30	N	L
GREENEVILLE	WB4NKM	449.65	444.65	*	
HICKORY VALLEY	KA5TAG	448.20	443.20	N	C
JACKSON	WA4BJY	447.20	442.20	N	
JACKSON	WB4EPG	447.80	442.80	*	A
JACKSON	WB4EPG	447.825	442.825	*	C
JASPER	KD4XX	447.05	442.05		C
KNOXVILLE	WA4NTZ	447.50	442.50	N	
KNOXVILLE	K4HXD	449.30	444.30	N	
KNOXVILLE	KB4NK	449.60	444.60	*	
KNOXVILLE	WB4GBI	449.70	444.70		
MEDINA	K4BEZ	447.05	442.05	N	AL
MEMPHIS	WA4KOG	444.40	449.40	N	NB
MEMPHIS	WA4QWW	447.80	442.80	N	
MEMPHIS	W4ZJM	448.00	443.00	N	O
MEMPHIS	WA4DOR	448.40	443.40	N	A
MEMPHIS	KA4JXT	449.10	444.10	N	
MEMPHIS	KA4IZF	449.50	444.50	N	A
MEMPHIS	WD4APK	449.80	444.80	N	
MILAN	WD4ABJ	447.10	442.10	N	
MORRISTOWN	KA4NEX	449.20	444.20	N	
NASHVILLE	WB4NTM	449.15	444.15	N	C
NASHVILLE	WA4PCD	449.55	444.55	N	

MORE TENNESSEE REPEATERS

NASHVILLE	W4AY	449.675	444.675	N	
NASHVILLE	WB4QES	449.775	444.775	N	
NASHVILLE	WB4THG	449.875	444.875	N	
NASHVILLE	WB4QES	449.975	444.975	N	
OAK RIDGE	K4EAJ	449.40	444.40	*	L
PARIS/GROVE HL	WA4WKS	448.50	443.50		
SMYRNA	N4FUD	449.25	444.25	N	
WATERTON	KE4VZ	449.825	444.825	N	C

10 METERS

KNXVL/ENG MT	WB4IOB	29.52	29.62	*	
MEMPHIS/FRAYSER	W4ZJM	29.52	29.62	N	

6 METERS

COOKEVILLE	WA4UCE	52.13	53.13	N	C
CHATTANOOGA	WB4LRD	52.01	53.01	N	
GALLATIN	WD4KWP	52.45	53.45	*	C
KNOXVILLE	WB4GBI	52.35	53.35		
KNOXVILLE	WA4YON	52.64	53.64	*	
KNOXVILLE	K4HXD	52.76	52.525	N	NB
KNXVL/ENG MT	WB4IOB	52.15	53.15	*	
MEMPHIS	WA4KOG	52.01	53.01	N	

PACKET

KNOXVILLE	KB4NK-1	145.01	PKET	*	K
KNOXVL/CROSS MT	WA4YON-1	145.01	PKET	N	K
MEMPHIS	WB4MQD-1	145.33	PKET	N	K
PIKEVILLE	K4MJM	145.01	PKET	*	K
SHORT MT	W4YXA-1	145.01	PKET	N	CK

WEST VIRGINIA REPEATERS

2 METERS

ALDERSON	WA8AVZ	146.13	146.73	N	
BECKLEY/EOC	KC8FW	144.77	145.37	N	LA
BKLY/FLAT TOP MT	K8BO	146.25	146.85	N	A
BLUEFIELD	W8MOP	144.89	145.49	*	
BOLT MT	KD8X	144.57	145.17	*	L
BRIDGEPORT	K8VNQ	147.72	147.12	*	EAL
BUCKHANNON	WD8LND	146.04	146.64	N	
BUCKHANNON	K8WYH	146.25	146.85	N	
CHARLESTON	W8WHQ	144.83	145.43	N	
CHARLESTON	WB8IFS	146.22	146.82	N	
CHARLESTON	WB8CQV	146.28	146.88	N	
CLARKSBURG	N8FMD	146.22	146.82		
CLARKSBURG	WB8DTM	146.50	52.525	N	NB
CLARKSBURG	KA8OHX	147.915	147.315	N	
CRAIGSVILLE	KD8OG	144.67	145.27		L
DUNBAR	K8VKI	147.72	147.12	*	EA
EAST RIVER MNT	WD8OGY	146.355	146.955	N	A
ELKINS	AD8T	144.69	145.29	N	P
FAIRMONT	W8SP	146.30	146.90		NB
FAIRMONT	W8SP	146.31	146.91		
FRANKLIN	W3RUA	147.945	147.345	*	
GASSAWAY	KA8HEZ	146.115	146.715	N	
GRAFTON	K8VNQ	147.975	147.375	*	L
HARRISVILLE	WB8NSL	147.90	147.30	N	
HUNTINGTON	WB8FEQ	144.61	145.21		R
HUNTINGTON	W8VA	146.16	146.76	*	A
HUNTINGTON	KA8BKX	147.90	147.30	N	PA
HUNTINGTON/CHAS	WB8EZR	146.04	146.64	*	
KINGSTON/LICK KB	W8FG	144.87	145.47	*	L
LAYLAND/MANN MT	N8BZS	144.71	145.31	*	L
LEON	WB8NMT	147.78	147.18	N	
LIBERTY	K8SLI	144.81	145.41	N	P
LOGAN	WD8KWC	144.63	145.23	N	
LOGAN	WA8ZLR	146.09	147.11	N	ONB
LOGAN/WARD RK MT	WD8DRV	146.37	146.97	*	A
MADISON	KA8JYR	146.06	147.06	N	NB
MARMET/BEE MT	N8DBN	144.55	145.15	N	
MARTINSBURG	WA8FSE	144.55	145.15	M	
MARTINSBURG	WB8VAZ	147.855	147.255	M	
MCMECHEN	WA8ULB	146.31	146.91	*	PA
MORGANTOWN	K8LG	144.83	145.43	N	L
MORGANTOWN	W8CUL	146.16	146.76	*	LPA
MULLENS/HRNDN MT	KC8IT	147.63	147.03	*	LA
NEW MARTINSVLLE	WB8CSW	147.94	146.94		NB
PARKERSBURG	WA8CRW	146.37	146.97		
PARKERSBURG	W8JZN	147.99	147.39		
PARSONS	K8VNQ	144.73	145.33	*	EAL
POINT PLEASANT	W8KNM	147.66	147.06	N	
PRINCETON	KA8PNC	146.46	147.06	*	A
RAVENSWOOD	WD8JNU	146.07	146.67	*	
RAVENSWOOD	WD8JNU	146.10	146.70	*	R
RIPLEY	K8SNW	146.31	146.91	N	P
SALT ROCK	WD8MCR	144.51	145.11	N	
SCOTT DEPOT	K8SLI	147.87	147.27	N	A
SHERRARD	KD8GL	146.115	146.715	*	EA
SPENCER	KA8AUW	146.01	146.61	N	
SPENCER	N8APG	147.705	147.105	N	P
ST ALBANS	WB8GDY	146.40	147.00	*	
ST ALBANS	K8WMX	147.975	147.375	*	R
ST ALBANS/COAL	WB8KAD	146.12	146.72	N	PA
ST ALBANS/COAL	WB8OEC	147.75	147.15	N	
ST MARYS/BENS R	WB8ECC	147.63	147.03	N	L
SUMMERLEE MT	K8CFT	146.19	146.79	*	EA
SUMMERSVILLE	K8VKB	146.34	146.94		
TERRA ALTA	KD8ZR	147.60	147.00	*	PA
WEIRTON	KC8JN	146.34	146.94	N	A
WELCH	WB8SXZ	144.85	145.45	N	
WESTON	WD8EOM	144.79	145.39	N	PAL
WHEELING	W8YFX	144.59	145.19	N	
WHEELING	W8JDH	146.16	146.76	N	
WILLIAMSON	N8GEO	144.73	145.33	*	PA

220 MHZ

HUNTINGTON	KA8BKX	222.54	224.14	N	
KINGSTON/LICK KB	W8FG	223.14	224.74	*	

440 MHZ

CHARLESTON	??	439.25	421.25	N	V
HERNDON/HRNDN MT	N8CYH	449.00	444.00	*	
HUNTINGTON	KA8QYO	449.50	444.50		
LICK KNOB	N8FRV	449.80	444.80	*	
MORGANTOWN	K8LG	449.70	444.70	N	L
MORGANTOWN	W8CUL	449.80	444.80	*	PA

6 METERS

BOLT/BOLT MT	N8DKL	52.05	53.05	N	
DANVILLE/MADSN	K8JYR	52.06	53.66	N	NB
HERNSHAW/BEE MT	KA8SVR	52.09	53.69	N	NB
RAND	N8CDE	52.12	53.72	N	NB
ST ALBANS/COAL	WD8JKA	52.03	53.63	N	NB
ST MARYS/BENS R	WD8RET	52.17	53.17	N	L

PACKET

HUNTINGTON	KA8EUV-1	145.01	PKET	N	
LOGAN	WB8FQJ-1	145.01	PKET	N	K
MORGANTOWN	N8BHI-1	145.01	PKET	*	K
ST ALBANS	K8SLI-1	145.01	PKET	N	

GEORGIA REPEATERS

2 METERS

ADAIRSVILLE	WD4IWL	146.085	146.685	N	
ALBANY	W4MM	144.55	145.15	*	L
ALBANY	W4MM	146.10	146.70	*	
ALBANY	W4MM	146.13	146.73	*	
ALBANY	W4MM	146.22	146.82	*	
ALBANY	WB4TFW	147.75	147.15	*	
AMERICUS	N4KD	146.04	146.64	N	P
AMERICUS	K4VBH	147.87	147.27	N	
ASHBURN	KF4BI	147.885	147.285	*	
ATHENS	WA4BKF	146.145	146.745	*	A
ATHENS	K4TQU	147.375	147.975	*	
ATLANTA	K4DRQ	144.69	145.29	*	
ATLANTA	WA4JDR	144.71	145.31	N	
ATLANTA	W4BOC	144.85	145.45		
ATLANTA	W4BOC	146.16	146.76		
ATLANTA	W4DOC	146.22	146.82		PA
ATLANTA	N4OD	146.37	146.97	N	
ATLANTA	WA4NNO	146.40	147.00	*	PA
ATLANTA	KD4RR	147.705	147.105	N	
ATLANTA	K4SMX	147.795	147.195	N	
ATLANTA	WD4KDT	147.855	147.255	*	PAL
ATLANTA/AIRPORT	W4REI	147.63	147.03	*	

MORE GEORGIA REPEATERS

ATLANTA/BELL	W4PME	144.81	145.41	*	
ATLANTA/GA TECH	W4AQL	144.55	145.15	*	PA
ATLANTA/GPCO	WA4VBX	147.885	147.285	*	
ATLANTA/SWEAT MT	WB4UPC	144.83	145.43	*	A
ATLANTA/SWEAT MT	WB4UPC	147.94	147.34	*	
AUGUSTA	W4TUN	144.51	145.11		A
AUGUSTA	N4JA	144.89	145.49	*	
AUGUSTA	W4LWT	146.04	146.64	*	
AUGUSTA	WB4IHR	146.235	146.835	*	C
AUGUSTA	K4AUM	146.34	146.94		
AUGUSTA	NA4I	146.385	146.985	*	PA
AUGUSTA	W4ALK	147.72	147.12		PA
AUGUSTA	N4BMA	147.78	147.18	*	RPA
AUGUSTA	KB4NHY	147.97	147.37	N	P
BALDWIN	WD4NHW	147.78	147.18		A
BRUNSWICK	K4TVE	146.13	146.73	N	
CARROLLTON	W4FWD	146.04	146.64	*	A
CEDARTOWN	W4CMA	147.72	147.12	*	PA
CLEVELAND/LONG	K4FOW	146.31	146.91	*	
CLEVELAND/LONG	K4FOW	147.615	147.015	*	
CLOUDLAND	N4AHE	147.225	147.825	N	
COHUTTA-RTTY	W4KAU	146.46	147.06	*	R
COLLEGE PARK	WB4LBM	144.51	145.11	N	O
COLUMBUS	WD4BDU	144.71	145.31	N	
COLUMBUS	W4FIZ	146.01	146.61	*	
COLUMBUS	W4FIZ	146.13	146.73	N	
COLUMBUS	N4AGO	146.28	146.88	*	
COLUMBUS-RTTY	K4ACH	144.77	145.37	*	R
CONYERS	KE4SG	147.81	147.21	*	PA
CORDELE	WA4RWS	144.89	145.49	*	
COVINGTON	WA4ASI	146.925	146.325	N	
CUMMING/SAWNEE	K4BYK	147.75	147.15	N	PA
DALLAS	K4DVJ	146.25	146.85	N	
DALTON	K4WNG	144.63	145.23	N	
DALTON	N4BZJ	144.65	145.25	N	O
DALTON	N4BZJ	145.65	145.25	*	
DALTON	N4BZJ	147.735	147.135	*	
DALTON	KE4LN	147.81	147.21	*	
DECATUR	W4VTA	144.51	145.11	*	EA
DECATUR	WB4CPL	144.75	145.35	*	
DOUGLASVILLE	KB4EO	147.96	147.36	*	A
DUBLIN	WA4HZX	147.96	147.36	N	
ELLIJAY	W4HHH	146.385	146.985	*	
FAYETTEVILLE	K4UWN	146.085	146.685	*	
FOLKSTON	K4DMK	146.19	146.79	N	
FOREST PARK	K4KQK	144.65	145.25	N	
FORSYTH	WR4AQA	147.315	147.915	N	
GAINESVILLE	W4NSO	146.07	146.67		A
GRIFFIN	WB4GWA	144.79	145.39	*	PA
GRIFFIN	K4HYB	146.31	146.91	*	
HAMILTON	N4GDG	146.835	146.235	N	
HAMILTON/PINE MT	WB4ULJ	144.59	145.19	N	
HAMPTON	AC4P	146.235	146.835	N	
HARTWELL	KY4T	146.895	146.295	N	E
IRWINTON	WB4NFG	147.84	147.24	N	
JACKSONVILLE(FL)	N4KBD	144.85	145.45		PA
JASPER	KB4IZF	144.77	145.37	*	
JASPER	KB4IZF	146.10	146.70	*	A
JESUP	WA4EQL	146.07	146.67	N	
JONESBORO	WA4DIW	144.57	145.17	*	EA
JONESBORO	WA4OGE	144.73	145.33	N	
LAGRANGE	KO4R	146.25	146.85	N	
LAGRANGE	WB4BXO	147.93	147.33	N	
LYONS	K4HAO	146.22	146.82	N	
MACON	WB4OLL	144.83	145.43	N	
MACON	W4BKM	146.06	146.66	N	
MACON	K4ICT	147.66	147.06	*	T
MADISON	WB4DKY	146.265	146.865	*	
MARIETTA	WA4QPL	144.89	145.49		PA
MARIETTA	N4NFP	146.055	146.655	N	
MARIETTA	KE4FT	146.13	146.73	N	
MARIETTA	KC4KE	146.175	146.775	*	
MARIETTA	W4BTI	146.28	146.88	*	
MARIETTA	WA4QPL	147.015	147.615	N	
METTER	W4TYM	147.645	147.045	*	
MILLEDGEVILLE	KF4LI	144.55	145.15	*	A
MILLEDGEVILLE	WB4DOJ	146.10	146.70	N	
MILLEDGEVILLE	KF4LT	146.205	146.805	N	
MOULTRIE	WD4KOW	146.19	146.79	N	
NEWNAN	K4SEX	144.53	145.13	*	PA
NEWNAN	K4SEX	146.19	146.79	*	
PERRY	KB4KIN	146.355	146.955	*	A
PRESTON	W4TOV	146.385	146.985	N	
QUITMAN	WA4NKL	146.28	146.88	N	
RINGGOLD	W4ABZ	146.115	146.715	N	
ROME	W4VO	146.34	146.94		EA
ROME	K4HNM	147.30	147.90	N	
ROSSVILLE	KC4EV	144.75	145.35	N	
ROSWELL	NC4E	144.69	145.29	N	
ROSWELL	N4CLA	147.66	147.06		
SANDY SPRINGS	WB4CPL	144.75	145.35	N	
SAVANNAH	K4NLX	144.63	145.23	N	
SAVANNAH	K4NLX	146.10	146.70	N	P
SAVANNAH	W4HBB	146.28	146.88	*	
SAVANNAH	W4HBB	146.37	146.97	*	A
SNELLVILLE	WD4JXR	147.675	147.075	*	PA
ST SIMONS ISL	KA4CVE	147.69	147.09	*	
STATESBORO	NC4D	147.81	147.21	N	
SVR CRK/MT ALTO	K4HNM	147.90	147.30	N	
SWAINSBORO	K4VYX	146.19	146.79	N	
SWEAT MT	KD4NC-	146.13	146.73		K
SWEAT MTN	N4CLA	144.87	145.47		
SYCAMORE	KF4BI	147.78	147.18	N	
THOMASTON	K4IMK	147.99	147.39	N	
THOMASVILLE	W4UCJ	147.66	147.06	N	A
TOCCOA	KA4DIP	147.93	147.33	*	PA
TYRONE	WA4EPK	144.61	145.21		PA
UNION CITY	WA4UPE	146.025	146.625	*	
VALDOSTA	???	144.61	145.21	N	P
VALDOSTA	W4APS	146.16	146.76	N	
VALDOSTA	K4JFE	147.735	147.135	N	
VALDOSTA/TIFTON	WA4VLP	144.53	145.13	N	
VIDALIA	N4JWP	146.025	146.625		A
WALESKA/PNLGMT	KE4PN	144.67	145.27	*	L
WARNER ROBINS	WB4BDP	146.01	146.61	*	
WARNER ROBINS	W4HON	146.25	146.85	*	A
WARNER ROBINS	W4MST	147.615	147.015	*	
WARNER ROBINS	W4HON	147.90	147.30	*	A
WAYCROSS	WA4GVG	146.04	146.64	N	
WRENS	WB4OCB	145.175	145.775	N	
WRIGHTSVILLE	WA4RVB	146.34	146.94	N	
YNG HRRS/RCKY TP	K5PRE	147.915	147.315	N	
YNG HRS/RAV CLIF	N4EFL	146.355	146.955		

220 MHZ

ATLANTA	KK4C	223.22	224.82	*	PAL
ATLANTA/SWEAT MT	WB4UPC	222.34	223.94	*	L
ATLANTA/SWEAT MT	WB4UPC	222.52	224.12	*	A
ATLANTA/SWEAT MT	WB4UPC	223.06	224.66	*	O
BUCHANAN/HARALSO	WB4UPC	222.46	224.06	*	L
BUCHANAN/HARALSO	WB4UPC	223.28	224.88	*	O
BUCHANAN/HARALSO	WB4UPC	223.34	224.94	*	
CANTON	KE4PN	222.74	224.34	*	L
CANTON	WB4UPC	222.74	224.34	*	L
DALTON	N4BZJ	223.28	224.88	*	
JACKSONVILLE(FL)	N4KBD	223.34	224.94		
MARIETTA	N4BSW	223.14	224.74	N	
ROSSVILLE	KC4EV	223.34	224.94	N	

440 MHZ

ALBANY	W4MM	439.25	427.25	*
ALBANY	W4MM	444.50	449.50	*

CVRA-SERA REPEATER SYMBOLS

Unmarked - 1st Column - Full Mbr.		T	Tone Access Repeater
★	Honor Roll Full Member	L	Linked Repeater
D	Deliquent Membership	K	Packet Operation
N	NON Member SERA	R	Radioteletype Oper.
NB	Not on SERA Band Plan	V	Television (SS or ATV)
M	T-MARC Terr. Rptr.	P	Proposed Repeater
A	Autopatch (Open)	C	Under Construction
PA	Private Autopatch	O	Off Air Temporarily
EA	Emerg. Autopatch	RB	Remote Base System

Note some repeaters allow voice as well as other functions on their machine. Generally the second function is indicated, but does not necessarily mean the machine is solely operated in that mode. Operators may check with owners for info.

MORE GEORGIA REPEATERS

ATLANTA	WD4KEZ	444.45	449.45	N	
ATLANTA	W4DOC	444.825	449.825		
ATLANTA	KE4IO	448.50	443.50	N	
ATLANTA	KE4IO	448.550	443.550	N	
ATLANTA	W4BOC	449.25	444.25		
ATLANTA	WB4UWL	449.50	444.50	*	
ATLANTA	N4WQ	449.625	444.625	N	A
ATLANTA	WA4NNO	449.925	444.925	*	
ATLANTA	WA4YNZ	449.975	444.975	N	T
ATLANTA/BELL	K4LDR	449.15	444.15	*	
AUGUSTA	WB4OCB	448.145	443.145	N	
BRUNSWICK	K4TVE	449.974	444.974	N	
CHATSWORTH	AA4EO	448.00	443.00	N	
COLUMBUS	WA4QHN	449.20	444.20	N	
CONYERS	WB4JEH	447.55	442.55	N	
DALTON	WA4TIW	449.735	444.735	*	
DECATUR	WB4LBM	449.20	444.20	N	
GRIFFIN	WB4GWA	448.90	443.90	*	PA
JACKSONVILLE(FL)	N4KBD	449.10	444.10		
LAWRENCEVILLE	WB4QDX	449.00	444.00		
LAWRENCEVILLE	WD4KEZ	449.45	145.67	*	RB
LAWRENCEVILLE	WD4KEZ	449.45	444.45	*	L
MACON	WB4OLL	444.90	449.90	N	
MARIETTA	N4CLA	448.20	443.20	N	
RIVERDALE	K4NEF	449.55	444.55		
VALDOSTA	???	449.35	444.35	N	P

10 METERS

ALBANY	W4MM	29.58	29.68	*	L
ATLANTA	WB4LBM	29.52	29.62	N	
JACKSONVILLE(FL)	N4KBD	29.54	29.64		
MARIETTA	KJ4IS	29.56	29.66	N	C
NE ATLANTA	KM4Z	29.52	29.62		

6 METERS

ATLANTA/SWEAT MT	WB4UPC	53.05	52.05	*	
CONYERS	WB4JEH	52.55	53.55	N	C
MARIETTA	WR4ASD	53.44	52.44	N	
PERRY	KB4KI	52.13	53.13	N	C

PACKET

ADEL	KF4JF-1	145.01	PKET	N	K
ALBANY	W4MM-1	145.09	PKET	N	K
AMICACOLA MT	WB4GQX-4	145.09	PKET	*	K
AUGUSTA	WD4CNV-1	145.01	PKET	N	K
CLARKSVILLE	W4EAW-1	145.01	PKET	N	K
COHUTTA	W4KAU	145.01	PKET	*	K
COHUTTA	W4KAU	145.09	PKET	*	K
COLUMBUS	K4ABT-1	145.01	PKET	N	K
CUMMING/SAWNEE	WB4GQX-1	145.01	PKET	*	K
FAIRMONT	AA4EO-1	145.09	PKET	N	K
FORSYTH	WB4GQX-2	145.01	PKET	*	K
HAMILTON/PINE MT	WB4ULJ-1	145.01	PKET	N	K
HAMPTON	WA4TXT-1	145.01	PKET	N	K
MACON	K4ICT-2	145.05	PKET	*	K
PERRY	K4ICT-1	145.01	PKET	*	K
ROBERTA	K4ICT-4	145.01	PKET	*	K
ROME	NC4G-1	145.09	PKET	N	K
SAWNEE MT/CUMMIN	WB4GQX-1	223.70	PKET	N	K
WARNER ROBINS	WL7ACY-1	145.05	PKET	*	K

ALABAMA REPEATERS

2 METERS

ONLY Full Member Repeaters Listed

ANNISTON	N4FIV	146.10	146.70	*	A
BESSEMER	N4AHN	144.55	145.15	*	L
BESSEMER	N4LJE	144.79	145.39	*	
BIRMINGHAM	N4IQT	144.59	145.19	*	
BIRMINGHAM	WB4TJX	144.63	145.23		
BIRMINGHAM	WD4BXA	147.285	147.885		A
BIRMINGHAM	WA4MHO	147.94	147.34	*	
BREWTON	WA4TYH	146.37	146.97	*	
DOTHAN	WA4QEO	144.83	145.43		
DOTHAN	KE4MZ	146.24	146.84	*	A
DOTHAN	WA4ZPI	147.94	147.34	*	
DOUBLE OAK MT	N4DMA	146.38	146.98	*	
ENTERPRISE	WD4ROJ	147.84	147.24		
FLORENCE	WB4NQH	146.22	146.82		A
FOLEY GULF SHR.	WB4OWS	146.085	146.685		
FORT PAYNE	WA4PJE	147.86	147.26	*	A
GREENVILLE	K4TNS	146.07	146.67		
GUNTERSVILLE	K4CZZ	147.98	147.38	*	
HALEYVILLE	WA4YYL	146.18	146.78		
HEADLAND	WA4WIE	147.80	147.20		PA
HUEYTOWN	WA4JUM	147.74	147.14	*	
HUNTSVILLE	N4UV	147.70	147.10		
HUNTSVILLE	N4AVB	147.90	147.30		
JASPER	WB4ACN	146.30	146.90	*	
LANETT	K4DXZ	147.60	147.00	*	
LINCOLN	KC4OX	144.89	145.49		EA
LINEVILLE	WB4VBA	144.83	145.43		
MONTGOMERY	NR4A	144.51	145.11	*	
MOULTON	N4AKW	146.36	146.96		EA
MT CHEAHA	WB4GNA	147.68	147.08	*	
MUNFORD	W4NTI	146.14	146.74	*	EA
MUSCLE SHOALS	WB4NAH	146.08	146.68		A
OZARK	KA4AFI	144.53	145.13		A
PELL CITY	KB4LPR	144.77	145.37		A
PELL CITY	N4ISB	147.62	147.02	*	PA
PHENIX CITY	WA4QHN	146.12	146.72		
TUSCALOOSA	KX4I	144.75	145.35	*	
TUSCALOOSA	KX4I	147.66	147.06	*	
TUSCALOOSA	WD4DAT	147.90	147.30		
WARRIOR	WB4YOX	146.24	146.84	*	
WATUMNPKA/MONT	WA4PRY	146.32	146.92		A

440 MHZ

BIRMINGHAM	K4FUM	444.90	444.30	*	
BIRMINGHAM	N4DJR	449.20	444.20	*	
BIRMINGHAM	WA4MHO	449.55	444.55	*	
CHEAHA MTN	WA4URC	449.00	444.00	*	
CLANTON	NR4A	448.30	443.30	*	
DOTHAN	WA4ZPI	449.05	444.05	*	
HIGH LEVEL	KE4GA	449.975	444.975	*	
HUEYTOWN	N4DJR	448.80	443.80	*	
HUEYTOWN	WA4CYA	449.70	444.70	*	T
MONTGOMERY	NR4A	442.65	447.65	*	
PRATTVILLE	NR4A	442.925	447.925	*	
SYLACAUGA	KC4CM	447.50	442.50		
TUSCALOOSA	KX4I	447.90	442.90	*	

220 MHZ

BESSEMER	N4AHN	222.54	224.14	*	A
PLEASANT GROVE	KD4EM	223.34	224.94	*	PA

10 METERS

TUSCALOOSA	KX4I	29.56	29.66	*	

6 METERS

BESSEMER	N4AHN	52.15	53.15	*	
FT PAYNE/LKT MT	KB4CVN	52.03	53.03	*	PA
HAYDEN	N4CCQ	52.01	53.01	*	
LINEVILLE	WB4ODA	52.07	53.07		

PACKET

ENTERPRISE	WD4ROJ-1	145.01	PKET		K

Catch The Spirit of '86!

Clip the Associate Membership form in the Journal, make copies and pass them around to friends who are not members, or better still make them fill out the form and pay you, and you send in his application with the others you get.

Get a friend to join CVRA-SERA as an Associate Member.

BUY YOUR EQUIPMENT FROM OUR REPEATER JOURNAL ADVERTISERS TELL THEM YOU SAW THEIR AD IN THE REPEATER JOURNAL!

Tennessee Tidbits

— by Tom Park, WD4KWP

Attention West Tennessee!!!! SERA again has an assistant coordinator in your area. J.D. Brown, N4DRL of Eads has consented to be my eyes and ears on your side of the river. He'll be available to assist in coordination efforts, as well as gathering repeater information and news for this column. If you want to be included in Tennessee Tidbits, tell J.D. and he will see the information gets to me in time for inclusion in the Repeater Journal. And, if you need assistance in frequency monitoring, he's the man in West Tennessee to call. He will be quite willing to assist you in getting your "homework" done for repeater coordination requests that you are sending yours truly --- this promises to be a real timesaver for everyone concerned. Give him your support just as I give him my official welcome to his position. He's taking on one of those sometimes thankless jobs, so just for the record, THANKS N4DRL, WE NEED YOU.

• • • •

The Lafollette KA4DAK 145.13 repeater has had a number of changes lately. The addition of a superstation master antenna along with improved receiving capabilities has really perked up this local machine. The repeater has an open autopatch and time/temperature functions. Todd Overbay, owner of the repeater, says it's open to all.

• • • •

In a related move, Todd Overbay, KA4OAK, owner of the 145.13 machine, has purchased the 147.36 repeater on Red Oak Mountain. The recent collapse of the tower, which held several amateur antennas, has been replaced with a new 80 ft. Rohn 25G tower. Gene Price, WA4YON, Bob Argo, KB4NK and Todd Overbay, KA4OAK, are all co-owners of the site. They wish to thank all the hams who contributed and helped with the erection of the new tower.

• • • •

The WA4GZE 145.37 repeater is sporting a new Micor receiver and improvement is noted in this already excellent repeater.

THE SERA NEWS NET
Wednesdays at 8:30 PM

On Many Repeaters in 6 States

LOOK FOR US!

The SERA News Net, the largest on the East Coast is sponsored by CVRA-SERA in cooperation with the Piedmont Coastal Repeater Network of NC, and the N4VL anchor repeater for the NW one-way linking system. News moderator is K4MOB. Wayne, Editor, Repeater Journal.

Okey... Okey... You Win!

Stir up a hornets nest and you'll get stung, the old saying goes. We certainly stirred up a whale of a nest by deleting the by-frequency portion of the Repeater Index last issue.

The Journal had hardly hit the mailboxes and the phone started ringing. It seems we just shouldn't have cut out such a popular portion of the Repeater Journal. So we "beg your pardon" and have put the By-Frequency portion of the Index back in this issue.

Callers had some suggestions we don't dare print, but some others went something like... "I ain't gonna renew again until you put the frequency index back in"... "Why don't you cut those dumb editorials out if you want to cut out something"... (Now that really hurt my feelings)... "Raise your dang price, but don't cut the Repeater Index anymore"... "You cut out the only thing I read in the book."... and so the comments went on.

So ladies and gentlemen, this editor humbly bows down to popular and overwhelming pressure. Thank you for the comments, at least we know some of the book is read! - Wayne C. Williams,

REPEATER-CLUB-NET SERVICE PAGE

The Amateur News and Information

NET

Mondays..... 9:00 p.m.

34-94 REPEATER
RICHMOND, VA

K4OJE N4EXQ N4EPO

Club, ARRL, ARES, DX, FCC Information

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FM-740 70 cm

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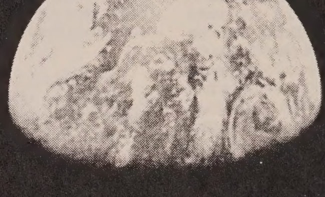

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- VFO Steps Size—2.5-40KHz, programmable (× 10 with Speed on)
- Band Scan—Programmable limits and modes, CARRIER, AUTO & DELAY, [illegible] same as set for VFO steps
- Memory Scan—Programmable modes, SKIP, CARRIER, AUTO & DELAY.

FM-240
Suggested Retail $369

FM-740
Suggested Retail $429

Limited time offer - Free MS-20 external speaker with purchase of FM-240 or FM-740. See your dealer now.

Specifications KDK FM-240 (and FM-740)	
General	
Supply Voltage	13.8v ± 15%, negative ground.
Consumption	Transmit: 1.5A @ 5w, 5.5A @ 25w Receive: .4A @ 0 sig., .6A @ max volume.
Temp. Range	− 10 deg. C to 60 deg. C.
Dimensions	40H × 140W × 170D mm (Body only)
Weight	1.0Kg (Body only)
Transmitter	
Freq. Range	FM-240 142.000 - 150.00 MHz (FM-740 440.00 - 449.975 MHz)
Output	High = 25 watts, Low = 5 watts (High = low, (Low = 1W) (FM-740 High = Low)
Modulation	Variable reactance frequency modulation
Max. Deviation	± 5KHz
Spur. Emmis	More than 60dB down from carrier
Duplex Offset	Programmable ± .1 to 12.7MHz (set at ± .6KHz ex-factory)
Tone	Programmable 74-250.3 (34 EIA tones) Encode and Decode
Receiver	
Int. Freq	1st = 10.7MHz, 2nd = 455KHz (1st-21.4MHz 2nd-455KHz)
Sensitivity	Better than 12dB SINAD @ .2uV
Squelch Sens	Better than .15uV
Bandwidth	+ 6KHz @ − 6dB
Selectivity	+ 12.5KHz @ − 60dB
Image Ratio	Better than 70dB
Audio Output	More than 2w, 8 ohms load, 10% THD
Standard Accessories	
Speaker Microphone	Speaker = 8 ohms, Mike = Condenser type. SM-34A: UP/DOWN plus tone encoder.
Power Cable	2 meters, with 7A fuse.

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Editorial Comment

Continued from Page 1

survive and we'll stay healthly, but it's going to require more revenues through more members, and probably membership dues increases. . . that's the way it is!

• • • •

We keep getting the word, filtered up from Alabama and elsewhere, the rumor continues to persist that if that State were taken as a District of CVRA-SERA that the repeater owners would lose all local rights to vote, coordinate and everything else.

Nothing could be further from the truth! If one took the time, which the person(s) apparently have not, to read our Constitution and BY-Laws, they would readily see that being a District in CVRA-SERA does not take anything local away at all. If a District is formed, it is because a overwhelming majority of the area bounded by that District prefer representation of CVRA-SERA. CVRA-SERA representation means that the District believes in what the organization stands for, and agrees to abide by the Constitution and By-Laws and Coordination Policies. They first have to agree upon this (which is THEIR choice). Then elected officials, a Director and a Vice-Director are elected by Full Members OF THAT DISTRICT. This District and Vice-Director RUNS policies in that state, keeping of course, within the guidelines of CVRA—SERA which the majority voted to go under.

CVRA-SERA as we have said many times over the past years, is NOT political, no one person runs the organization. They elected officers (elected by Full Membership of ALL Districts) and the Directors and Vice-Directors (elected by each of their respective Districts) run the organization in a Democratic way.

The Director & Vice-Director are the BOSSES in their District. They have a free reign to conduct affairs as they see fit whether it be publicity, membership campaigns, meetings, or whatever. Only CVRA-SERA policies guide them

So it just isn't true when someone down there tells you that "CVRA-SERA is run from Virginia". It's run from all 7 States we represent - the Directors, Vice-Directors, appointees, Full Membership repeater owners, and even Associate Membership repeater users have a strong voice in what happens with the organization.

If you don't take my word for it, take the word of seven States of over 44,000 Amateurs, and about 970 repeater owners.

• • • •

The Alabama situation as of this writing is still up in the air. As you might recall, the State suddenly shifted to 20 khz. A group felt that this was not done in the best interest of the repeater owners, so there we have the Alabama Repeater Council (for 20 khz) and another group which has applied to CVRA-SERA for District status. As of now, the CVRA-SERA board has not voted, mainly because of the unique situation involved: (1) the actual repeater council is not requesting alliliation with CVRA-SERA, (2) the State is on 20 khz and if an affirmative vote were held for CVRA-SERA District status, would have to shift to 15 khz sometime in the future.

At the present time, 61 Alabama repeaters have joined CVRA-SERA as Full (Honorary) Members (since no voting rights are available without a District).

The ARC said that only a very small group is interested in CVRA-SERA, or rather disenchanted with the ARC, yet that group has grown to approximately 30% of the State. The group wishing affiliation with CVRA-SERA indicate through their survey (a mailing to all repeater owners) with over 60 ballots back, 74% prefer 15 khz, and 72% want CVRA-SERA affiliation. This represents over 60% of the 2-meter repeater owners in the State.

On the other hand, the Alabama Repeater Council in a news release in late March claims 70 out of a possible 104 repeater owners returned their ballots and voted 42 for 20khz and 26 for 15 khz and 2 abstentions. There was no breakdown as to how many of the owners represented 2-meter repeaters.

The group wishing CVRA-SERA representation said they mailed to 131 possible repeaters owners, the Alabama Repeater Council said they mailed to 104 possible repeater owners. The ARC notes the state has 210 repeaters in the State, the District group reports 190 repeaters in the State.

I do not know when the CVRA-SERA board will elect to hold a vote, but I feel much more information is needed from the area, since the information we're getting does not agree, unless of course some repeater owners are voting two different ways.

The feeling of CVRA-SERA was stated at the annual meeting. We would be honored to have Alabama a part of our organization, but we need to be assured a very heavy majority of the State was agreeable to our organization because of the unique situation they have down there. We don't want to take anything away from anyone, what we're interested in is what do the repeater owners want in Alabama. Is it CVRA-SERA or the Alabama Repeater Council. Right now, from what we read, we aren't really sure.

Continued on Page 32

In Alabama. . .

52% of Repeater Owners Respond to Questionaire

The Proposed CVRA-SERA District group of Alabama mailed out questionaires to 131 possible repeater owners in the State late last year. The group said that these figures represent 68 ballots returned or 52% of the repeater owner/operators. (If you take the Alabama Repeater Council's number of 104 possible repeater owners, then the representation would be 65% of the repeater owners who returned ballots.) It should be pointed out that some repeater owners operate more than one repeater.

The ballot was in the form of 12 questions, with the recipient asked to circle Yes or No. A space was left for comments and the person's name and address.

A sampling of the questions show: 60% said they were a dues paying member of ARC (Alabama Repeater Council) in 1985. 19% said they voted in the ARC election for Directors in 1985. 50% said they knew the name of their ARC Director (47% said no, 3% undecided).

Question 6 asked if the ARC had done a good job keeping them informed of matters which impact Alabama repeater owners and users? 19% said yes, 69% no and 12% undecided. In another question, 93% said yes to mailing ballots by statewide organizations (such as ARC) for elections. 93% also said yes to the question: Should frequency coordination policy be guided by the wishes of Alabama repeater owners and users.

Question 9: Would you be willing to return to a 15 khz bandplan. . . . if the Alabama District of CVRA-SERA assumed frequency coordination. 74% said yes, 18% said no and 8% were undecided. When asked "Would you prefer that frequency coordination in Alabama be performed by an Ala. Dist. of CVRA-SERA rather than ARC", 63% said yes, 16% said no and 21% were undecided. To the question of a new independant organization doing coordination instead of ARC, 53% yes, 24% no and 23% undecided.

The final question: "Do you want to join CVRA-SERA. 63% said yes, 18% no and 19% were undecided.

Understand the percentage figures quoted above were responses from 52% of all the repeater owners, or a slight majority of ALL the repeaters in the State.

Looking back

—by David Ward, KA4LVO

The May 1976 Repeater Journal

Ten years ago this issue, the CVRA had just celebrated its fifth birthday. Associate membership had just passed the 700 mark, almost doubling from 391 members just one year before. Continued emphasis was placed on the organization's growth, and to introduce the CVRA to new members, the cover story once again explained the purpose of the CVRA and its reason for existence. Out of criticisms from new groups and individuals wanting to put a repeater on the air, this story dealt primarily with the frequency coordinators, CVRA officials, and the frequency coordination procedures used by them.

The May issue of the Repeater Journal had for two years been the Annual Repeater Directory and Data Book. But now in 1976, the organization had grown to the point it could no longer devote a full page to each of its 70 full member repeaters. Instead, plans were made to print a separate "CVRA Handbook" to be printed in July. It would contain the Constitution and By-Laws, official bandplans, duties of each committee and other small items in addition to the detailed repeater data.

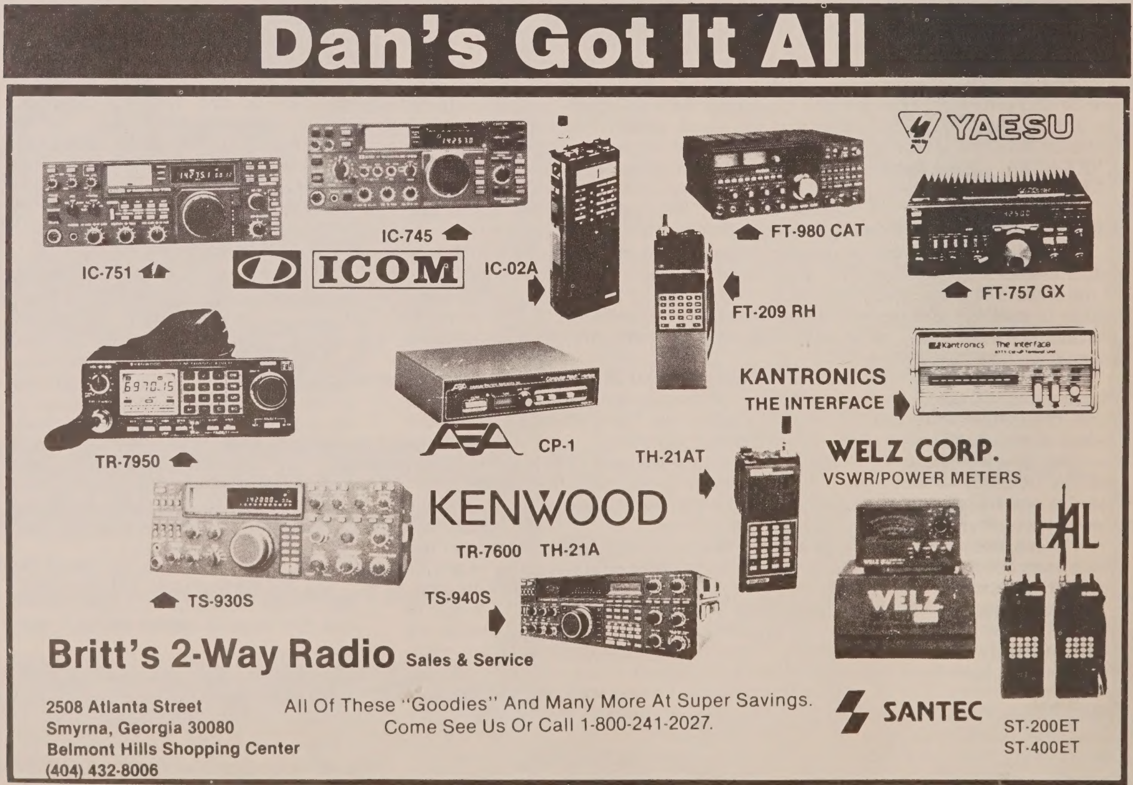
New regulations were going into effect for the upcoming VHF Contest in June. Prior to 1976, simplex FM contacts could be made on repeater inputs or outputs. But due to complaints from repeater owners, the new policy read "When using FM, only simplex operation with both stations transmitting and receiving within 15 kHz of each other is permitted. No frequency normally used as either the input or output of a repeater within 150 miles may be used for contest contacts, even if the repeater is turned off at the time". This may not seem important today, but at that time, most rigs were crystal controlled. The only simplex frequency many people had was 146.52, so it was expected to be overloaded come contest days.

Coincidentally, one of the advertisers listed a synthesized 144-148 MHz rig for $679.00. Everhart Electronics Co. of Lexington, NC had a KLM Multi-2000 with features of 1 and 10 watt output, built-in AC and DC power supplies, meters and CW/SSB/NBFM/WBFM modes of operation. Another advertiser, VHF Engineering had a fully tested 2-meter repeater for $695.95.

In my last article, I mentioned that Wayne Williams, K4MOB had jsut become the new Piedmont District Director. The May 1976 Repeater Journal contains an open letter from him. "... You can let your home repeater know you care by urging **all** newcomers to two meters to join the CVRA. . .As more and more repeaters come on the air, someone has to coordinate, communicate, and see that confusion does not enter into our hobby. Your CVRA can do this with your active support. . . We also hope to get 100 **new** associate members this year. . . I need your cooperation and help. Your input is invited. . .". He hasn't changed much, has he?

Send Inquires to Proper Person

If your dishwasher was broken you wouldn't call in an auto mechanic. Likewise, check your Journal carefully and send the right person correspondence. The treasurer cannot handle coordination. The President doesn't handle Full Membership . . . etc. . . . etc. . . .



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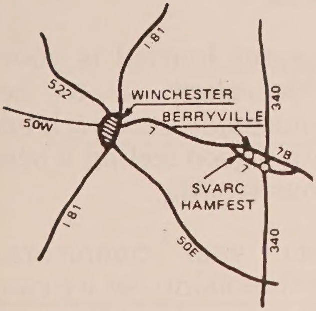

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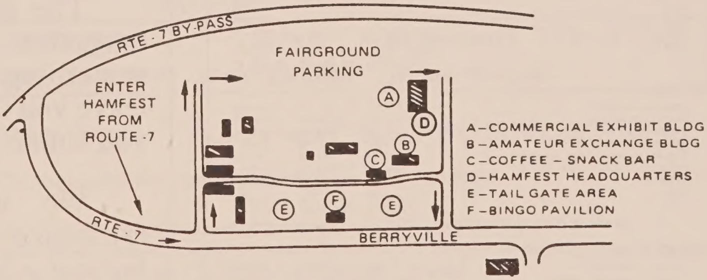

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Tail-Gaters or Tables Bldg. B (First Come Basis) — $5.00 SET UP BEGINS 6 AM

Tail-Gaters' PRIZE DRAWING

Editorial Comment

Continued from Page 29

After some very careful surveys, meetings and seminars, it seems the Florida Repeater Council is going to stay a separate identify. Officers of FRC over the past months have been polling repeater owners and amateurs in that State to see if affialiation with CVRA-SERA might be in the best interest.

The word is that the Florida Repeater Council which has served well for over 15 years is doing a great job as they are, carrying on in a state that has over 550 repeaters (over half of the entire CVRA-SERA 7 State totals). They said that FRC has coordination policies very similar to CVRA-SERA and the organization is very similar in structure and nothing new, other than the umbrella of a large regional organization would be achieved by joining CVRA-SERA.

CVRA-SERA has always held the FRC in the highest esteem, and I for one don't blame them. We are very honored that the FRC considered our organization, but I agree with them, the FRC is strong, it has been and continues to be run in a way that benefits the Florida repeaters, so why not keep your identity?

More power to you FRC, we're for you all the way?

• • • •

We received a very handsome certificate from the Monongalia Wireless Association in West Virginia giving us an "honorary" membership in that club. I appreciate it folks. This was very kind and nice of you to think of me.

• • • •

I have noticed several PACKET organizations planning on using 144.99 mhz as frequencies for some of their LAN operations. I do not know what will come of this, but 144.99 is NOT part of the Packet or Digipeter band plan. CVRA-SERA is offering protection only on the frequencies of 145.01, 03, 05, 07 and 145.09 as a 2-meter Digital bandplan. There are other services operating below 145.00 Mhz. It will be assumed that any Digipeters listed in the Journal operating on 144.99, will have to have the designator of "NB" (Non Bandplan) affixed after them. Perhaps the Digital organizations and the CVRA-SERA Directors of those particular districts should get together and discuss this before they go too far.

• • • •

We read recently in the "ARRL Letter" that the FCC wishes to remind all hams that transmitting equipment used in other services (except MARS and the like) must be type-accepted. Much 2-meter equipment available today can be made to work on frequencies considerably above and below this amateur band.

Amateurs should bear in mind, while it may be a great temptation to do so, the use of gear converted from the Amateur Service to another service is not permitted.

Late Late Phone Calls are Taboo

A number of Directors and Vice-Directors have been receiving phone calls after 11 p.m. and sometimes after midnight from people wanting repeater information, coordination and other things. Obviously the Director would be in no position to help you that late at night, so it might be wise to call earlier in the evening so everyone will have a clear mind.

Persons wishing repeater coordination are unable to get phone coordination anyway. CVRA-SERA coordination policy now states that all requests for frequency coordination should be in writing. So you could save a phone call by just dropping your Director a card, asking for a Frequency Coordination Request package.

Your Director wants to be of service to you at all times when possible, but late at night after 11 p.m. is kind of stretching public service for anyone.

"D" Goes to "N"

All repeaters in our index who were members in 1985 and did not renew their memberships have had the "N" Non-member designator placed on their listing. The "D" last issue was "Delinquent". Some 138 repeaters were changed over, after failing to renew in time for this issue of the index.

CVRA-SouthEastern Repeater Association, Inc.

FINANCIAL REPORT FROM JANUARY 1, TO MARCH 31, 1984, 1985 AND 1986

REVENUES	1984	1985	1986
Advertising	$2,526.50	$2,538.75	$1,486.25
Associate Membership dues	2,231.00	3,235.88	3,090.00
Full Membership dues	1,002.00	2,249.00	2,018.50
Decals		52.50	10.50
Postage - includes HOT-P		3.00	59.50
Hats			18.00
Contributions			182.00
Interest			46.76
Other	22.75	5.00	58.39
	$5,782.25	$8,084.63	$6,969.90
EXPENSES			
Journal mailing	$ 673.25	$ 473.95	$1,166.09
Journal printing	3,144.28	4,018.81	2,952.13
Director's meetings	534.19	768.68	962.84
Office expenses	8.67	142.96	-0-
Postage - other than journal	33.81	83.35	94.16
Printing - other than journal	62.80	813.27	-0-
Telephone	105.41	142.91	138.54
Other	2.35	-0-	-0-
	$4,564.76	$6,443.93	$5,313.76
EXCESS OF REVENUES OVER EXPENSES	$1,217.49	$1,640.70	$1,656.14
Balances at beginning of year			
Expenses advanced	$ 800.00	$ 900.00	$ 950.00
Invested in copy machine	1,792.00	1,344.00	896.00
Cash in bank	2,507.39	1,413.04	2,107.05
	$5,099.39	$3,657.04	$3,953.05
EQUITY TO ACCOUNT FOR	$6,316.88	$5,297.74	$5,609.19
Less: Expenses advanced	$ 800.00	$ 900.00	$ 300.00
Invested in copy machine	1,792.00	1,344.00	896.00
	$2,592.00	$2,244.00	$1,196.00
CASH IN BANK	$,3724.88	$3,053.74	$4,413.19

Respectfully submitted

Ray Adams

Ray Adams, N4BAQ Treasurer

Are Things Right?

The Repeater Journal is your magazine. We want it to be something you enjoy reading and leave you with a good feeling when you finish your reading.

We want your comments, criticisms or complaints so we can put out a better magazine. Keep us on our toes, and we'll do a better job.

Your comments may be sent to the Editor. His address is on Page 1.

"Grounded To What?"

— By David Jones, N4JED

Does your coaxial switch in the shack say that all unused circuits are grounded when not in use? Do they say what they are grounded to? Is this all the protection you need in an electrical storm?

Chances are most of us haven't thought about these questions concerning coaxial switches and have gone ahead and put them in line to switch from antenna to antenna. Having looked at several different brands of coaxial switches, I feel these questions should be considered before installation.

First off, and probably most important, a grounding coaxial switch is not a substitute for disconnecting your antenna from the rig for reasons we will discuss later. Any time there is the slightest chance of a storm; disconnect the antenna, disconnect the ground, and disconnect the power. Don't just turn the coaxial switch.

So, how is that switch grounded? In the models I have tested, the center conductor of the coax is grounded to the shield of the coax and thus back thru your antenna ground. However, at the same time, the shield of the coax running to your $1000 rig is also connected to this grounded system. This is where the problem is. Should lightning of any rf/electrical surge on the antenna find the path-to-ground through your rig to either its ground or into the electrical system of your house less resistance than the antenna ground, guess what is going to burn out-if not the whole house.

Therefore, do **not** use your coaxial switch as a lightning arrestor. This is not what they are designed for. Do read upon what you are purchasing so you will know how it is designed to be used. Do keep your rig disconnected from the antenna system when not using it and it would be a good idea for all of us to periodically check our antenna ground system and its connections. 73 and good hamming. . . .

Forsyth Club Member Chosen C A P Senior Member of The Year

Winston-Salem, NC: Thomas A. Harrell, KB4MZN, a member of Winston-Salem (NC) Civil Air Patrol Squadron, has received the squadron's Senior Member of the Year Award from Squadron Commander Aubrey Banks. Harrell serves the squadron as the Aerospace Education Officer and he has been instrumental in preparing drawings and a model of the squadron's dream - - a building of its own.

As a member of the Forsyth Amateur Radio Club, Harrell is responsible for producing the club's monthly newsletter.

South Carolina News

—By Al Harney, N4EOY

New SC Vice Director and Assistant

Len Bjerken, WB4USY has been appointed Vice Director for SC with Jim Long, KB4YF being appointed assistant director. Hap Griffin, WA4UMU recently resigned to devote more time to work and school.

We would like to thank Hap for several years of fine service to the CVRA-SERA. Len was formerly associated with the CVRA-SERA back in the 70's and left the area but has returned and again is getting actively involved.

• • • •

The Columbia SC Amateur Radio Club recently completed installation of a brand new 45G tower 170 ft. tall. The old tower was in bad shape and becoming dangerous. The club operates the 145.43 machine and has a net running the WESTLINK news on Sunday Evenings at 8:30 PM. All amateurs in range are invited to check in.

W0ORE QSL Cards

Many thanks go to the Milwaukee Radio Amateur's club, a prestigious Special Service Club, for processing several thousand QSL cards for SWL reports of W0ORE's space shuttle operation. For those of you fortunate enough to work W0ORE, cards are now in his possession, and should be signed and mailed shortly. *— from ARRL Letter*

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GRAY, TENNESSEE

October 18, 1986

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REPEATER JOURNAL ADVERTISING RATES

Effective 1 January 1986

The Repeater Journal is a 3 column magazine with overall page dimension of 8½ x 11 inches. Our page size enables a wide variety of ad sizes from full page down to one column inch size.

Column Widths are 1 col: 2-1/4-in., 1-1/2 col: 3-1/2-in., 2 col: 4-5/8-in., 3 col: 7-1/8-in. Ad widths will be based only with the specified column widths.

DEADLINES: New advertising copy or ad changes must be in the hands of our Advertising Manager no later than the 20th of the month on the 2nd month prior to publication. We cannot guarantee insertion of ads after deadline, although every effort will be made to accomodate.

ADVERTISING DEADLINES

FEB. Issue – Dec. 20 MAY Issue – Mar. 20
AUG. Issue – June 20 NOV Issue – Sep. 20

CVRA REPEATER JOURNAL advertising rates apply to exact size, camera ready copy. We can provide typesetting and reduce art for your ad at our cost. Composition and typesetting for full page ad approximately $25 to $28. Half page ad from $12 to $15. Reduction of artwork for ad with no type needed is $4.50. COLOR: We can provide one additional color on our standard color pages for $25.00.

The Repeater Journal layout size is very close to most National magazines. If you wish to use a page from one of the magazines, to promote your product, we can reshoot on the camera, insert your store name and customize for your particular application. Be sure to submit a clean, unwrinkled copy of the magazine page.

Contract advertising may be billed quarterly at the request of Advertiser. No volume discounts or contract discounts are available. It is the advertisers responsibility to cancel or request changes in advertising at the time he pays his bill, or before ad deadline, otherwise, advertising will be repeated until further notice.

BUSINESS CARDS, CLASSIFIED ADS AND HAMFEST advertising must be sent accompanied by full payment for insertion. Advertisers who have not paid for previously published advertising before upcoming issue deadline, cannot have any advertising inserted until account is paid in full.

The CVRA REPEATER JOURNAL cannot be responsible for errors in advertising, or held accountable for equipment or accessories that do not live up to the advertised claim. We are not responsible and cannot guarantee insertion of advertising received after deadline.

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REPEATER JOURNAL ADV. MANAGER,
SHARON WARD, 5573 Vienna-Dozier Rd.,
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Ins. Frt. or Ins. Bk. Cover	7-1/8" x 9-7/8"	$100.00
Full Page	7-1/8" x 9-7/8"	85.00
Full Page Bleed (any sides)	8-1/2" x 11"	100.00
2/3 Page (Vertical)	4-5/8" x 9-7/8"	65.00
1/2 Page (Horizontal)	7-1/8" x 4-3/4"	48.00
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1/2 Page (Vertical 2-col)	4-5/8" x 7-1/8"	48.00
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1/4 Page (Vertical Only)	3-1/2" x 4-3/4"	28.00
1/6 Page (Vertical)	2-1/4" x 4-3/4"	18.00
1/6 Page (Horizontal)	4-3/4" x 2-1/4"	18.00
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RJ 5-86

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Help Us to Help You!
Our Goal is 1,000
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Join The
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Lets Increase CVRA-SERA Membership Rolls. Each New Member gets the REPEATER JOURNAL Quarterly

Associate Membership - $5.00 for one Year.
HOT-P Membership - $8.50 (Your Journal mailed 1st Class)

Georgia News

—Compiled by Lindsay Cleveland, W4IZI

A VISITATION TO FLORIDA

Our neighbors to the south have been especially friendly recently. The folks who run the Orlando Hamfest said they would donate a booth in the dealer area to CVRA-SERA. That was much too nice an offer to pass by, so although it was a ten-hour drive down there from Atlanta, I was happy to go.

Just to make certain there were no misconceptions on anyone's part that CVRA-SERA was trying to "take over" Florida from the Florida Repeater Council, I got in touch with Tom King, WB4ILH, of the F.R.C. and we decided that it would be good for both our organizations to share the donated booth. This arrangement worked out very well. Anyone who came by with a question about repeaters in Florida could get the straight story from the Florida coordinators. And anything that related to the seven CVRA-SERA districts could be referred to me. I take pleasure in reporting that the Florida hams who stopped by the booth certainly were very friendly and many had nice things to say about Georgia becoming "organized" as a CVRA-SERA District.

As an extra bonus, the Florida Repeater Council invited me to be a guest speaker at their Annual Meeting, and to give them some background about CVRA-SERA, its goals and procedures. One of the questions raised was what might be the advantages to Florida if it decided to become a CVRA-SERA District. This indicates they are becoming aware of the possible benefits of being part of a regional coordinating body, rather than just a state-wide body. However, since Florida has over 550 repeaters, they are nearly as "large" as CVRA-SERA. And since the Florida Repeater Council has been in existence for over 15 years and is doing a fine job in keeping a semblance of order amongst all those repeaters, the general feeling I received was that they would prefer to keep the present arrangement. There *definitely* was no expression of anything negative against CVRA-SERA, but merely a preference to maintain their unique identity. Because the frequency coordination and cooperation between the F.R.C. and CVRA-SERA is almost the same as if they were a District, the interests of repeater users and owners are being well served and there is no reason why this arrangement should not continue.

• • • •

Our District Director, Jim Abercrombie, N4JA, has been "doing his thing." He reports that he is continuing his behind-the-scenes diplomacy to encourage frequency changes by the few remaining Georgia repeaters whose input/output frequencies are inverted from the bandplan. Since we have already had three repeaters "correct" their freqencies during the short time that Georgia has been a CVRA-SERA district, it speaks well of the cooperative attitude of Georgia repeater owners. Also, there recently was a case where a repeater arbitrarily changed frequency without checking or applying for recoordination. This caused a problem with another repeater on the same frequency. But Jim was able to work with the trustees of the affected repeaters and an amicable solution was reached.

FROM THE MOUNTAINS

DALTON: The folks up in the northern part of Georgia had their Hamfest in March. It wasn't listed in the February *Repeater Journal*, but they had not passed the information to us before the press deadline. I suspect they will do better next time! Our District Vice-Director, John Robinson, N4BGL, was there to represent CVRA-SERA, and as usual he found they had ordered up excellent weather for the Hamfest.

THRU THE METRO

ATLANTA: The Georgia Power Employee A.R.S. (GPEARS) newsletter editor did a very nice thing...he printed a CVRA-SERA Associate Membership application form in the Feb. 27 issue. It is very gratifying to see a club helping to raise our Georgia Associate Membership level.

For those not aware of it, the Air Force has set up a PAVE-PAWS site at Warner-Robins AFB. They have also established some power restrictions on 440 Mhz. transmitters within certain areas around the site. However, they seem to be rather cooperative with the Amateur Community. The MATPARC newsletter reports that the PAVE-PAWS site implementation director has approved a request for continued operation of the 444.15 Mhz repeater at the 100 watt level on a non-interference basis. This means that if PAVE-PAWS has an interference problem from the repeater, they will telephone MATPARC for testing and/or power cutback. Otherwise, the repeater may operate normally.

TO THE PLAINS

VALDOSTA: As I was passing through Valdosta on my way back from the Orlando Hamfest, I was pleasantly surprised to have Tim Hardy, KC0PA, pop up on the repeater and ask me to mail him a CVRA-SERA membership application for the W4APS 16/76 repeater. It will be a pleasure to remove the "N" (non-member) from the listing of that fine repeater.

• • • •

COLUMBUS: The folks at the Columbus Hamfest kindly donated a table in the dealer area for CVRA-SERA, and we were able to sign up some more Associate Members. It was a bit smaller in attendance than expected, which was partly due to the Charlotte (NC) Hamfest falling on the same date, and partly due to it being the first really nice Spring weekend which caused some folks to stay home and work in their gardens.

WARNER-ROBINS/MACON: The Central Georgia A.R.C. has come up with a clever idea for public service: "Ident-A-Kid". The club set up a booth at a local shopping mall and encouraged parents to bring their kids to be video taped. This was a 5-minute taping (with sound) to document their identity (hopefully never needed). There was no charge for the service, and the parents could either bring their own video cartridge, or get one at cost at the booth.

With the increase in the number of missing children or children being stolen by former spouses or criminals, the idea of a video tape "document" has met with positive response from the law enforcement people. The taping is not just quick look at the child, but a thorough record containing close-ups and full shots, voice identification, birthmarks, and other identifying features, including any special talents the kid might have. The information on the tapes is strictly confidential since they are handed over to the parent immediately after being made.

ASSOCIATE MEMBERSHIP

The comments in this column last time seem to have been heard by the Georgia folks. At the hamfests, folks will come up to the booth and say "Joe told me I should join up and get my *Repeater Journal*, so here's my $5.00." Also the application blanks being printed in the various club newsletters are being mailed in. I want to thank all the "folks out there" who decided to get at least one new Associate Member.

WRAP-UP

To many people, the CVRA-SERA *is* the *Repeater Journal*. One of the great services provided is the quarterly listing of all the repeaters in the seven Districts. We look to all our Associate Members to tell us about repeaters that appear, disappear, move, or change call signs. I appreciate the "cards and letters" and telephone calls I receive from folks giving corrections to the listings.

As I mentioned earlier, Georgia's "image" is much better in Florida, as well as the surrounding states. Some of the credit for that is due to the time and efforts put in by our Director and Vice-Director. But most of the credit is due to the many repeater clubs, sponsors, owners, and users in Georgia who have decided that being a CVRA-SERA District is good for all VHF/UHF hams, and take a little bit of time to contribute to its continued success. Pat yourselves on the back!

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Model PM-1 $159.95

Upgrade virtually any TNC for H.F. packet operation. The new PM-1 interfaces between your present TNC and your radio with no internal modifications.

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For Commadore
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TAPR boards. Operate packet, RTTY, Morse and AMTOR. Rqrs. HFM-64 Enhanced HF Modem for Morse Rec. & FM RTTY.

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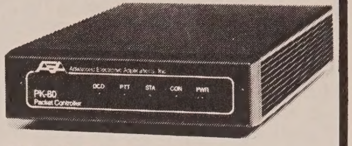

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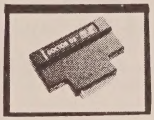

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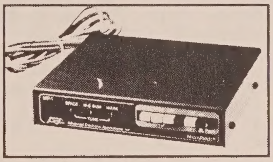

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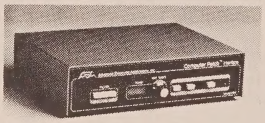

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For Commadore with MBA-TOR Ready to Operate

Operates with AEA-SOFT software.

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FCC Calls For Ala. Repeater Group Meeting May 17

The Repeater Journal has learned that Angelo Ditty, FCC Engineer-in-Charge of the Atlanta office has called for the two opposing Repeater "Coordinating" groups in Alabama meet with him at the Birmingham Hamfest.

According to sources Mr. Ditty wants to sit down with representatives of the Alabama Repeater Council, and representatives of the "Proposed" District of CVRA-SERA from Alabama.

See our editorial this issue concerning the conflicting reports as to who Alabama repeater owners want to represent them.

It is not known what Mr. Ditty will want to discuss with the two opposing sides, but it probably will be an attempt to settle the problems and bring out factual information as to just what the repeater owners in the State want for their representation, the Alabama Repeater Council, a CVRA-SERA District, or a complete new organization within the State.

Although the "Proposed CVRA-SERA Alabama District" group qualified earlier this year for admission as a District to CVRA-SERA, the confusing information flowing from that area, and the lack of pertinent facts showing that a vast majority of the Alabama repeater owners want CVRA-SERA representation has made our Directors take a "wait and see attitude" as far as voting on the proposal.

Both sides claim majority of support, which seems hard to understand. Maybe some concrete facts will come out of the meeting at Birmingham with the FCC. (Editor)

Roy Neal, K6DUE "Ham of the Year"

— tnx ARRL Letter

Just before presstime, we were able to obtain the annual Dayton Hamvention awards announcement. The awards were announced publicly at the Dayton Hamvention last weekend.

They are: "Ham of the Year" - Roy Neal, K6DUE. "Technical Excellence" Doug De Maw, W1FB, "Special Achievement Award" - Rev. Michael Mullen, WB2GQW, President of the International Mission Radio Assn. (IMRA).

Does Your Repeater Show "N"

If an "N" is beside your repeater listing, it is because you are not a Full Member of CVRA-SERA. You can join for the remainder of 1986. Write our Full Member Chairman. Address is on page 2. Let's wipe out all those "N"s!!

South Carolina Packet Radio News

— From SCARDS Newsletter

The South Carolina Amateur Radio Digital Society (SCARDS) has decided not to participate in the new Packet Radio Magazine, but instead will take advantage of the excellent source of packet radio material. Individuals may wish to subscribe separately by writing: Packet Radio Magazine, 812 Childers Loop, Brandon, Fl. 33511.

Bill WA4TKM, well soon have a digipeater (WA4TKM-1) in operation at Conway, which should open up access to the Myrtle Beach area. It is not possible to link with Savannah via Florence (W4ULH-11), Charleston (N4LYF-1) and then to K4NLX-2 in Savannah. A link from Savannah to Jacksonville, Fl. is also available through the JAX switch.

• • • •

Regarding long range planning for packet radio, most Southeastern states seem to be going down the road of establishing a number of Local Area Nets (LANS) operating on a frequency other than the trunkline or backbone frequency. As discussed in the February SCARDS meeting in Columbia, it is proposed to establish five LANS in South Carolina - to be known as UPSTATE, MIDLANDS, PEE DEE, COASTAL, and AUGUSTA. The outline of the proposed LANS is shown on the attached map. Proposed frequency assignments for each LAN is also shown on the map.

The trunkline or backbone frequency in South Carolina is proposed to remain as 145.01 Mhz. until such time as traffic volume or network switching or other considerations make it desirable to go to a baud rate higher than 1200 at some higher frequency, such as 220 or 440 mhz.

It is further proposed that each LAN be equipped with its own PBBS operating on the LAN frequency (not the backbone frequency) and also that somewhere within the LAN there will be a 2 port TNC or other arrangement to provide for interconnection between the LAN frequency and the 145.01 backbone frequency.

This is a sizable undertaking and it is not expected to happen immediately but rather is a plan into which we can grow. Since there is no central funding for such a project, dependency will rest with Clubs and individuals to make it a reality. There is work actively being pursued to develop the UPSTATE LAN on 145.07 Mhz.

• • • •

The Augusta LAN is really a Georgia LAN and is known there as the EAST GEORGIA LAN. Its frequency of 144.99 was designated by the Georgia group.

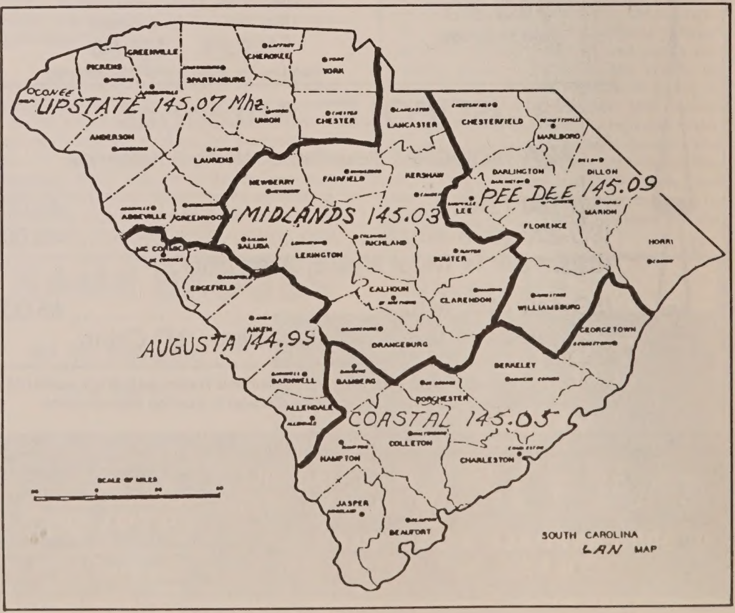
There is nothing firm about which LAN an individual should be in. A home station could participate in whatever LAN he can reach directly, including participating in more than one if desired. The map outline is a general guide and is recommended for use in establishing dedicated LAN digipeaters and one PBBS per LAN.

Comments regarding this proposed plan should be addressed to W4FX.

• • • •

Southnet met during the Orlando Hamfest in March. The principal activity was the ARRL 5th Annual Computer Networking Conference. Many papers were presented at the conference about packet. The subject matter is too lengthy to cover here. The entire proceedings are covered in an ARRL booklet entitled "5th Annual Computer Networking Conference" available for $10 from the ARRL publications group.

For late news regarding packet radio, check into the Southnet HF SSB net each Sunday at 2 PM EST or EDT on 7190 Khz. - (73. Rip. W4FX.)



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Frequency Coverage. The IC-02AT covers 140.000 through 151.550MHz and the IC-2AT, 141.500 through 149.994MHz...both include frequencies for MARS operation.

IC-02AT Features. ICOM's top-of-the-line IC-02AT handheld has the following outstanding features:

- DTMF direct keyboard entry
- LCD readout
- 3 watts standard, 5 watts optional (with IC-BP7 battery pack)
- 10 memories which store duplex offset and PL tone (odd offset can be stored in last 4 memories)
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- Three scanning systems: priority, memory and programmable band scan (selectable increments of 5, 10, 15, 20 or 25KHz)

IC-2AT Features. The IC-2AT is ICOM's most popular handheld on the market. The IC-2AT features a DTMF pad, 1.5 watts output and thumbwheel frequency selection. The IC-2A is also available and has the same features as the IC-2AT except DTMF.

Accessories. A variety of slide-on battery packs are available for the IC-02AT and IC-2AT, including the new long-life 800mAh IC-BP8 which can be used with both handhelds.

Other accessories include the HS-10 boom headset, HS-10SB PTT switchbox, HS-10SA VOX unit (for IC-02AT) and an assortment of battery pack chargers.

The IC-02AT and IC-2AT come standard with an IC-BP3 NiCd battery pack, flexible antenna, AC wall charger, belt clip, wrist strap and ear plug. See the IC-02AT and IC-2AT 2-meter handhelds at your local ICOM dealer.

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Winston-Salem, NC Hams Earn Top Scouting Awards

POST 73
FORSYTH AMATEUR RADIO CLUB

Three members of Amateur Radio Explorer Post 73 of the Old Hickory Council, Boy Scouts of America, chartered to the Forsyth Amateur Radio Club, Winston-Salem, NC, earn top Exploring Awards. William E. Batts, III, KB4EAK (center), post committee chairperson, was honored with the Council Exploring Division Award of Merit. R. Gwyn Armfield, KA4SJV (right), past Old Hickory Council Explorer Officer Association and Southeastern Region Area 7 Explorer youth chairperson, received the Exploring Leadership Award. C/Cpt Jaime Burcham, KB4MZU, (left) current chairperson of the Old Hickory Council Explorer Officer Association was named the Council Explorer of the Year.

Jaime S. Burcham, KB4MZU, of Amateur Radio Explorer Post 73 chartered to the Forsyth Amateur Radio Club, was named this year's Old Hickory Council, Boy Scouts of America, Explorer of the Year. This annual award goes to an Explorer who has distinguished himself in both his home unit and in service to the council. Burcham has been an active member of the Old Hickory Council Explorer Officer Association and is its newly elected president. A junior at Bishop McGuiness High School, Brucham is active in both amateur and Civil Air Patrol communications.

Exploring is the young adult (ages 14-20) division of Boy Scouts of America and is open to both young men and young women.

William E. Batts, III, KB4EAT, the Post 73 committee chairperson, garnered the Old Hickory Exploring Division Award of Merit, Scouting's highest district or division level adult award. This award goes to an adult for his/her contribution to the Exploring program at the division and council level. Batts was the project officer for a council wide canoe trip, organized the council annual banquet closing ceremony, and has helped organized and chaperone other council events.

This is the second year that Post 73 members have been so honored. Gwyn Armfield, KA4SJV, and Holli Nelson, KB4AKM received these awards in '85. All four are also active in Civil Air Patrol in Winston-Salem.

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Full Membership Doing Quite Well-Still Ways To Go

— by Gerry Butts, KB4SEL
Full Mbrship Chrmn.

North Carolina continues to show a strong lead in total numbers of repeaters who have joined or renewed their Full Membership for 1986. Georgia is coming on strong and has passed the 100 repeater mark for renewals, in fact, Georgia is the only state to surpass their 1985 total renewals this early in the season. Eastern Kentucky has equalled their 1985 total.

Now that we have Full Membership statistics on the computer we can keep a running tally of how each individual state is doing. Previously the big computer which handles everything had names and repeaters, but no breakdown of individual memberships, repeater totals and percentages.

The chart below shows how we stand as of April 8th. The columns represent first the State (District), then final totals of repeater members for 1983, 1984 and 1985. The next column represents the current number of repeaters who are full members thus far in 1986, followed by the State's percentage of memberships (full member repeaters divided by total number of repeaters in the State). The current total repeater column lists all known repeaters in that state and the final column shows the number of actual applications for full membership received from each state.

Please note that the percentage of membership for CVRA-SERA which is 50%, does not count Full Members in Alabama since it is not a District.

We still lack 50% of the area in renewals, which are a lot of repeaters. If you are a repeater owner, or your home repeater has an "N" beside it in the index, why not consider joining or encouraging them to join. CVRA-SERA needs support of all the repeaters in its territory. Although supporting CVRA-SERA is not a requirement for service, it is a very inexpensive payback for an organization to continue coordination and maintain clean and clear channels for repeaters.

CVRA-SERA FULL MEMBERSHIP FROM 1983 TO DATE. CORR -4-20-86
THRU APPL.#385

	---------	----------	-------REPEATER	-------	-------	-------	-------
STATE	FINAL 1983	FINAL 1984	FINAL 1985	CURR. 1986	'86% TTL	ALL RPTR	CURR APPL
N.C.	100	83	149	138	62%	221	88
S.C.	24	35	56	36	40%	89	28
VA.*	58	60	92	83	49%	169	54
W.VA.	28	21	41	35	40%	87	25
TENN.	47	58	85	60	30%	202	37
GA.**	9	18	109	115	61%	190	82
E.KY***	1	4	18	18	72%	25	17
ALA.****	1	1	4	63	--	--	50
FLA.****	--	--	--	4	--	--	1
TOTALS	268	280	554	552	50%	983	382

* TTL.VA.RPTRS.ALSO INCLUDE N.VA. - T-MARC TERRITORY)
**GA.ASSUMED DISTRICT STATUS IN 3rd QTR.OF 1985.
***K.KY.ASSUMED DISTRICT STATUS IN MID 1985.
****ALA.& FLA. NOT SERA DISTRICTS.
1986 % OF SERA FULL MBR DOES NOT INCL. ALA.& FLA.ONLY DISTRICTS

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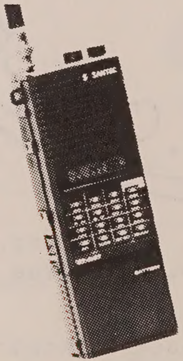

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SPECIFICATION	SANTEC ST-20T	KENWOOD TR-2600A	ICOM IC-02/AT	YAESU FT-209R
SIZE (MM)	170(H)x65(W)x35(D)	168(H)x66(W)x39.5(D)	165.5(H)x65(W)x35(D)	168(H)x65(W)x34(D)
WEIGHT (GRAMS)	550	520	515	600
TYPE READOUT	6-DIGIT LCD	6-DIGIT LCD	5-DIGET LCD	4-DIGIT LCD
RX SENTIVITY	.25mV @ 12db SINAD	.25mV @ 12 db SINAD	.25mV @ 12 db SINAD	.25mV @ 12db SINAD
AUDIO OUTPUT	400mW @ 8 OHMS	400mW @ 8 OHMS	500 mW @ 8 OHMS	450 mW @ 8 OHMS
ANALOG "S" METER	YES	YES	NO	YES
24-HOUR CLOCK	YES	NO	NO	NO
MOD.TO REC.NOAA WEA.	YES (FIELD MOD AVAIL)	NO	NO	NO
AUTO-DIALER MEMORIES	YES	NO	NO	NO
SIMPLIFIED KEYBOARD ENTRY	YES	NO	NO	NO
AUTO ENTRY-STD OFFSETS	YES	NO	NO	YES
KEYBOARD LOCK	YES	YES	YES	YES
LIGHTED LCD/"S" METER	YES	YES	YES	YES
DIRECT DC OPER-STD	YES	NO (OPTION PAK)	YES	NO
MEMORY CHAN. CAPACITY	10 CHANNELS	10 CHANNELS	10 CHANNELS	10 CHANNELS
STORES OFFSET?	YES	YES	YES	YES
STORES "ODD" OFFSET/CHAN	YES (ANY 10 CHANNELS)	NO (1 CHAN.#10)	NO (4 MEM.ONLY)	NO
REVERSE FREQ.SWITCH	NO	YES	NO	NO
PL TONE PER CHANNEL	YES	NO (USES DES)	YES (CH.1-4 SAME TONE)	NO (OPTIONAL)
PL TONE DECODE	(OPTION AVAIL)	NO	NO	(OPTIONAL)
COMPUTER CURRENT SAVER	YES	NO	NO	YES (VARIABLE TIME)
SQUELCHED RX CURR.DRAIN	9 mA (SQ REC.40 mA)	35 mA (APPROX)	35 mA (APPROX)	11 mA APPROX-15 mA W/FNB-4
MAX.POWER OUTPUT	5W (W/BPS BATT/DIR DC)	2.5W HI	5W (W/BP5 OR DIR DC)	5W (W/12V OPTIONAL FNB-4)
OTHER POWER LEVELS	3.5W/.5W W/STD BATT	300MW LO	3W/.5W W/STD.BATT.	
STANDARD BATTERY	9.6V @ 250MA (3.5W)	8.4V @ 450MA	8.4V @ 250MA	10.6V @ 500MA (FNB-3)
OPTIONAL BATTERIES	10.5V @ 450MA (5W) 13.2V @ 450MA (5W)	DRY CELL CASE	7.2V,8.4V,10.8V,13.2V (250MA TO 600MA RATED)	FNB-4 12V 500 mA FNB-5 6X AA DRY CELLS
FREQUENCY RANGE (STD)	140-150.995 MHZ T & R	140-149 MHZ T & R 149-160 MHZ REC ONLY	140-148 MHZ TRANS 140-149.995 MHZ REC	140-150 T & R
SCAN CAPABILITY	MEMORIES/BAND-MANUAL, SCAN,SEARCH,OPEN,LOCKOUT	MEMORIES/BAND OPEN OR BUSY	MEMORIES/BAND	MEMORIES/BAND BUSY,CLEAR,MANUAL
SCAN STEP RANGE	5-100khz in 5 khz steps	5-30 khz in 5 khz steps	5-25 khz in 5 khz steps	UNKNOWN RANGE
BAND SCAN UP/LOW LIMIT	YES (DIAL-M0)	YES M8-M9	YES	YES
RESET TO POWER UP CPU	YES (EXTERNAL)	NO (INTERNAL)	NO (INTERNAL)	NO
EXT.FREQ.RANGE CAPABLE	YES	YES	YES	YES
STD ACCES. INCL.W/RADIO	WALL CHGR,DUCK,BELT CLIP HAND STRAP,EAR PHONE, BATT,CONNECTORS.	WALL CHGR,DUCK,HAND STRAP,EAR PHONE,BATT	WALL CHGR,DUCK,BELT CLP. HAND STRAP,EAR PHONE	WALL CHGR,DUCK,HAND STRAP,EAR PHONE,BATT, VINYL CARRY CASE
TOUCHTONE PAD	16-POSITION DTMF	16-POSITION DTMF	16-POSITION DTMF	16-POSITION DTMF

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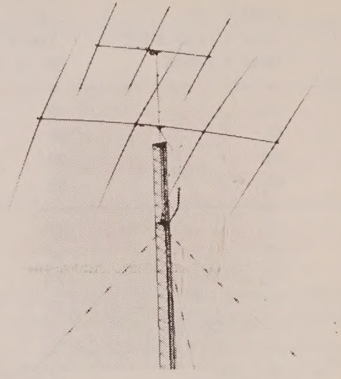

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- **Compact Size**
- **Simple to Operate**
- **Large LCD Readout**
- **25 or 45 Watts**
- **Packet Compatible**
- **21 Memory Channels**

The IC-28H has all the features you need for carefree 2-meter mobile operation. The only thing it doesn't have is a big price.

45 Watts. The IC-28H provides a full 45 watts of powerful output. The **IC-28A** 25-watt version is also available. Both units have a selectable low power.

Large LCD readout. A wide-view LCD readout can be easily read even in bright sunlight. An automatic dimmer circuit reduces the brightness for evening operation.

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Available Options. IC-HM14 DTMF mic, PS-45 13.8V 8A power supply, UT-29 tone squelch unit, SP-10 external speaker, HM-16 speaker mic and HS-15/HS-15SB flexible mic and PTT switchbox.

We now carry a complete Supply of ICOM Radios and Accessories. Call for Information and Prices-Availability

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Coming Events

1986 HAMFEST/CONVENTION CALENDAR

Please note: Dates marked with an asterick are NOT confirmed dates and the Repeater Journal assumes no responsibility to their accuracy since the respective Hamfest Clubs have failed to notify us of their confirmed date.

Deadlines for correct entries in August Journal is July 1, 1986. (Call Editor).

MAY

3-4	Hamfest, GREENVILLE,SC
11-12	Roa Div. ARRL LPM Meet, GREENVILLE, SC
17-18	Hamfest, BIRMINGHAM, AL
17-18	Hamfest, LAKE HARTWELL, GA
24	Durhamfest, DURHAM, NC
24-25	Hamfest, KNOXVILLE, TN
25	Hamfest, ROANOKE, VA

JUNE

1*	Hamfest, HUMBOLT, TN
1	Hamfest, MANASSAS, VA
7	John Ross Hamfest, FT. OGLETHROPE, GA
8*	Hamfest, MUNCIE, IN

JULY

5-6	WV Radio Council, Fest, JACKSONS MIL, WV
19*	Swapfest, CARY, NC
20	TSRAC Hamfest, WHEELING, WV
19-20	Hamfestival, ATLANTA, GA
26-27	WCARS Hamfest, ASHEVILLE, NC
27	BRATS Hamfest, W. FRIENDSHIP, MD
27	Hamfest & Computer Show, CHARLESTON, WV

AUGUST

2-3*	Hamfest, JACKSONVILLE, FA
3	Winchester Hamfest, BERRYVILLE, VA
9*	Jax Cty. Hamfest, COTTAGEVILLE, WV
10*	Hamfest, LEXINGTON, KY
16-17*	Hamfest, HUNTSVILLE, AL
23-24	Roa. Div. ARRL Conv/Hamfest, VIRGINIA BEACH, VA
24	ERARC Hamfest, BLUEFIELD, WV
30-31*	Hamfest, SHELBY, NC

SEPTEMBER

6-7	Hamfest, CHATTANOOGA, TN
6-7*	Hamfest, MELBOURNE, FL
13-14*	Hamfest, MOBILE, AL
20	Hamfest, GAINESVILLE, GA

OCTOBER

4-5*	Hamfest, LOUISVILLE, KY
5*	Hamfest, ROCK HILL, SC
11-12	Central Ga. Hamfest, WARNER ROBBINS, GA
12	2nd Annual Techfest, RICHMOND, VA
12*	Hamfest, MAYSVILLE, NC
18	Tri Cities Hamfest, GRAY, TN
19*	Hamfest, DUBLIN, VA

NOVEMBER

1-2	Ham Radio & Computer Expo "86, LAWRENCEVILLE, GA
2*	Hamfest, CONCORD, NC
22-23	Hamfest, GREENSBORO, NC

DEADLINE FOR HAMFEST ADVERTISING FOR AUGUST ISSUE is June 20th for space reservations, July 1 for copy. All shows scheduled from mid August through the remainder of the 1986 calendar year should plan to advertise in the upcoming AUGUST REPEATER JOURNAL. Contact Sharon Ward, Journal Sales Manager. Her phone and address is on page 1.

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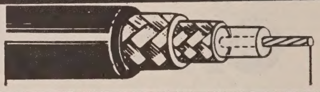

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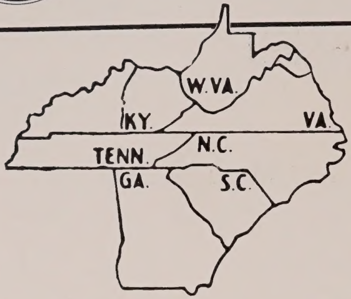

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